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AMERICAN RIFLEMAN

VOL. 111 JAN. 50

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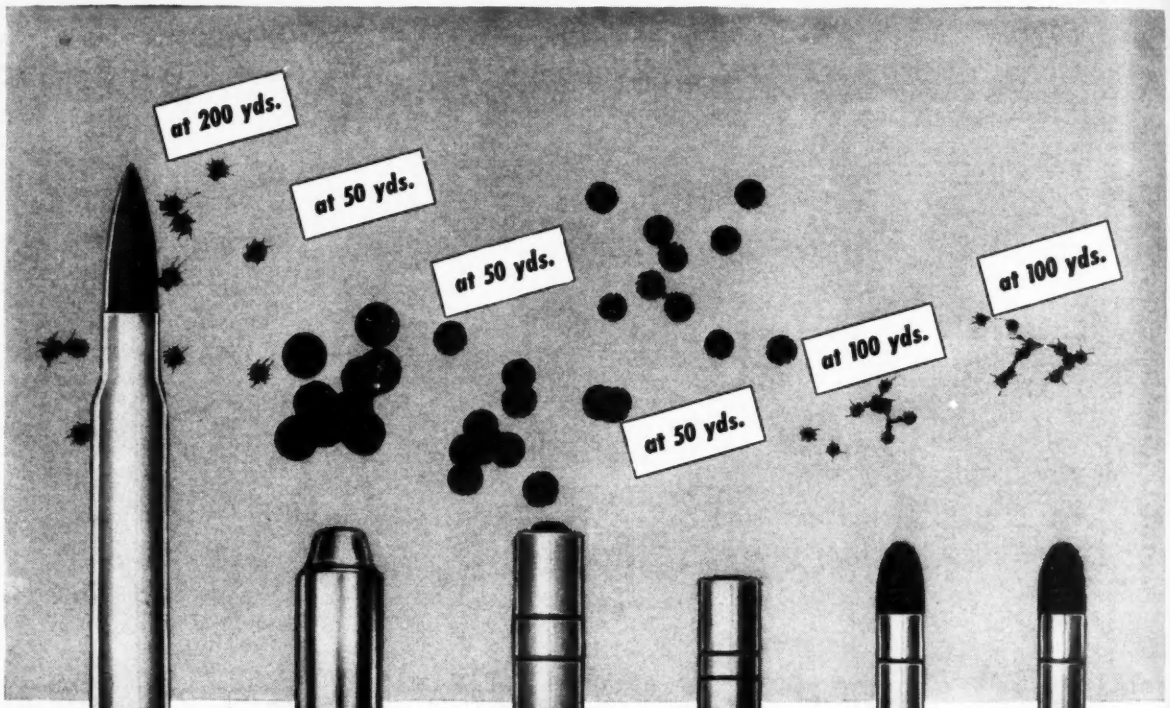
at 200 yds.
at 50 yds.
at 50 yds.
at 50 yds.
at 100 yds.
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45 AUTOMATIC "POLICE MATCH" WAD CUTTER
38 SPECIAL "POLICE MATCH" WAD CUTTER
32 S & W LONG "POLICE MATCH" WAD CUTTER
22 LONG RIFLE "DEWAR MATCH"
22 LONG RIFLE "POLICE MATCH"

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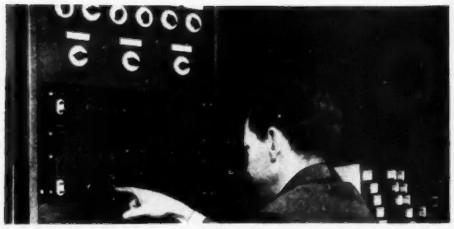

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The Rifle 1885-1888
Shooting and Fishing 1888-1906
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Vol. 98, No. 1 • January 1950

Happy New Year! — an Editorial — 10

The Buenos Aires Matches — by Frank Parsons, Jr. — 11
A team member reports on accomplishments in the 1949 Internationals

Hot-Shot .22 on Game — by Carroll Lemon — 16
Are today's high-speed .22's deadly enough for Southwestern deer?

Laminated Stock Blanks — by John F. Himes — 20
If you want the utmost in accuracy, build a stock that can't warp!

.22 Hornet Loads — by Barr and White — 24

Rifle for the Southwest — by E. B. Mann — 26
Dream rifles take a lot of planning, even when you start with a Model 70

The Neck Shot — by W. D. M. Bell — 29
Light bullets will kill almost any game if you pick your shots

Speaking of Guns . . . — by James E. Serven — 34
Newly unearthed facts on Syracuse gunmaker A. O. Zischang

Wanted: A .275 Magnum — by Richard F. Simmons — 37

Spotting Scope — 39

COVER

Once again photographer Bob Holland contributes a Rifleman cover. This one is a Lancaster double of about 1870, when wildfowling was at its best. The gun is 8 gauge, weighs 13 pounds! Lever under trigger guard is for opening gun

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Ithaca 37T, Trap Grade, Ventilated Rib	167.39	159.95	139.95
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Winchester 97, Hammer Pump, 12 or 16 Gauge	69.95	59.95	44.95
Winchester 97, Hammer, 12 Ga. 20" Riot	69.95		29.95
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Marlin 81DL, Repeater	28.90	22.95	16.95
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InCidenTa/Ly

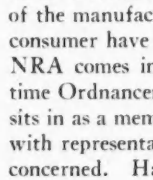
IF YOU'RE ONE of those dear old souls who insists that the Winchester 24 gauge is still the best shotgun shell ever manufactured, you'd better pass this up. You won't like it. It is the story of why your favorite load is no longer on the market.

We'll have to go back to 1924. At that time there were 4,067 different kinds of shotgun shells regularly produced and considered 'current' by our manufacturers. The result was chaos. For one thing, no retailer could stock even a fraction of those 4,067 varieties of shotgun shells, much less keep a fresh stock of each on hand. The rifle and pistol shooter was in almost as confusing a spot. Prior to 1927, when the Bureau of Standards stepped into the picture, there were 348 different kinds and calibers of rifle and pistol ammunition in general production. A 'complete' stock of rifle, pistol, and shotgun ammunition, vintage 1924, would have consisted of at least 4,415 boxes, and even then with only one of a kind!

Fortunately, the U. S. Department of Commerce, in the person of its Bureau of Standards, stepped in. Committees were set up to make recommendations for 'simplified practices and standardization' in our various industries . . . among them, arms and ammunition. Here is what the latter group has accomplished in the quarter century that has followed:

The variety of loaded shot shells in regular production has been reduced from 4,067 to 137—a reduction of almost 97 percent! On the metallic cartridge shelves the reduction has been from 348 in 1927 to 139 today.

Dealer problems have not been the only considerations in the Bureau's recommendations, nor has the convenience of the manufacturer been paramount. The wishes of the consumer have more often been the determining factor. That's where the NRA comes into the picture. Major General Julian S. Hatcher, long-time Ordnanceman and present head of the Association's Technical service, sits in as a member of the small arms and ammunition committee . . . along with representatives of the Bureau of Standards and of the manufacturers concerned. Hatcher represents the consumer in those committee sessions, and puts up a loud howl whenever the interests of John Q. Shooter appear to be jeopardized. That those interests are not overlooked is borne out by a recent press release from the Bureau's ammunition committee. The .401 and .405 Winchester cartridges, both dropped from production because of apparent lack of use, have been reinstated by the manufacturer after some loud consumer howls voiced by, among others, the NRA's General Hatcher. Other items of incidental intelligence carried in the same press release show that 'intermediate' velocity .22 rimfire ammunition will be dropped from production (who needs more than regular and high speed anyway?) and that four high-cup shotgun loads have been discontinued in favor of otherwise identical but low-cup loadings. The reason: conservation of brass.



All in all, American shooters should be pleased with the efforts of the standardization committee on their behalf. In the future, their ammunition will be cheaper and fresher. More important, their dealer will probably have it in stock. Even the cartridge collector should be pleased. After all, without the activities of the standardization people, the cartridges he so avidly collects probably wouldn't be rare enough to make collecting them any fun!

JS

RIFLEMAN WORDS • • • •

Each month this 'lexicon for shooters', is devoted to a few words peculiar to the shooting game which may be puzzling to the newcomer.

AUTOLOADER—A weapon which, after being loaded and fired once, will eject the empty cartridge case, load a cartridge from the magazine, and cock the gun ready for firing. However, the trigger must be pulled by the shooter for each shot. Used interchangeably with *semiautomatic.*

BRIDLE—An interior scroll-shaped plate in the lock of a percussion or flintlock firearm to which the pins through the lockplate fasten, holding the tumbler and other moving links and levers in proper position.

BROWN BESS—The muzzleloading flintlock musket adopted for the British service in the last half of the seventeenth century. Of .75 caliber, the weapon weighed slightly over eleven pounds and had a barrel of three feet six inches length. The Brown Bess was the standard arm of the British soldier for almost 150 years, being replaced by percussion arms in the early 1800's.

CASEHARDEN—To give an extremely hard surface to steel or wrought iron by exposing the outer surface to contact with animal charcoal at a temperature of 800 to 900 degrees C. and quenching in cold water. The process gives steel or iron a resistance to surface wear combined with tensile strength.

CRIMP—To bend the rim of the neck of a cartridge case so that it grips the bullet, holding it firmly in place.

PERCUSSION LOCK—A type of gunlock fired by a hammer striking a fulminate cap which has been placed over a nipple on the breech. Flame from the cap ignites the powder charge in the barrel breech through a hole in the nipple.

TUMBLING — Erratic flight of a bullet through the air caused by the bullet turning end over end. Tumbling usually results from using a long bullet in a slow twist of rifling.

TWIST—The spiral formed by the grooves in the bore of a rifle or pistol. It is usually measured by the number of inches of barrel required for the spiral to make one complete turn.

.22-250—A wildcat cartridge made by reducing the neck size of the .250 Savage case to .22 inch.

FALSE MUZZLE—A short section of barrel with a tapered bore which is placed temporarily on the muzzle in loading muzzleloading or Pope type rifles to guide the bullet into the bore with minimum distortion.

PISTOL GRIP—A curve of the small of a rifle stock shaped like the grip of a pistol. If the grip curves sharply down behind the trigger guard, it is called a 'full pistol grip'. If the grip is slightly curved, with only a small protuberance below the small of the stock, it is called a 'half pistol grip'.

RECOIL CUSHION—A soft or sponge rubber pad placed on the butt end of a rifle to minimize the jolt against a shooter's shoulder when the gun is fired.

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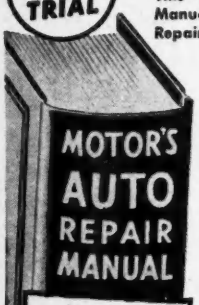

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M1 AT 1,000

Quantico, Va.

Editor:

In his article, "Center 5's Again" (RIFLEMAN, November), Captain Barrier listed the sight changes in clicks for the M1 rifle between various ranges. He ended the list with "600 to 1,000 yards—only the good Lord knows". For the information of the Captain and any others who may contemplate firing the M1 at a thousand, I would like to state that around 20 clicks is considered a normal come-up by San Diego Marine shooters where 1,000-yard shooting is still engaged in and very successfully with the M1 too. Verifying this in an old score-book, I find that my come-up from 600 to 1,000 ran from 18 to 21 clicks over both the Camp Matthews and San Luis Obispo ranges. Of course, this dope is not for ammunition of wartime manufacture, it being extremely futile to attempt 1,000-yard shooting with it. The load used was the M1 172-grain boat-tailed bullet ahead of 49 grains of HiVel in the M1 cases and arsenal primers. This proved to be a very satisfactory combination.

F. B. NIHART
Lt. Col., USMC

STUMBLING BLOCK

Rolla, N. D.

Editor:

It may interest you that I used one of your editorials on patriotism as the basis for one of my sermons on that theme. Keep up the good work. It is plain that the National Rifle Association would be a real stumbling block in the path of the communists in this country.

REV. JOHN L. CROSS

GREGOIRE BARRELS

Chester, Conn.

Editor:

Have read with interest your fine article on bench-rest shooting (RIFLEMAN, November). However, I think you have been listening to false rumors. This is where you mention my former "extremely soft steel barrels losing their gilt-edge accuracy in 200 to 500 rounds". I would like to point out the following facts:

1) Notwithstanding rumors, the *worst* report I received was on two barrels which apparently did lose their gilt-edge accuracy at 800 or 900 rounds. Moreover, I have on file letters from users of this former steel stating that they have fired 2000 to 4500 rounds and are still going strong.

2) My former steel, known to the trade as "Stressproof" is by no means soft, measuring 28 Rockwell C. In analysis and physical properties it is very close to the old "Ordnance Steel" of the Springfield barrels. This steel, discarded by me, is now used by the ton by other barrelmakers.

3) I did not change my steel because of barrel life, but because my new nickel-chrome-moly alloy (although much more expensive and tougher) gives a better shooting barrel. Increased life was incidental.

Changing to a more pleasant theme, I must say that in the past I have concurred with your statement that a champion barrel is a matter of luck. However, being an engineer, I live in a world of statistics which show that in spite of the fact that I make fewer barrels than any of my competitors, I get a greater number of what you term 'lucky' barrels, than all of them combined. Furthermore, the record shows that the same thing applied to Harry Pope who, like myself, had technical training superior to that of other barrelmakers. Could it be that it is not luck after all?

JOHN L. GREGOIRE

150-GRAIN LOAD

Berkeley, Calif.

Editor:

I was much interested in the letter from R. F. Sunstrom, Menominee, Michigan (RIFLEMAN, November). Although I don't necessarily agree with him about the greatest deer hunting area in the nation (quite a number of deer were taken in California this year) I do feel the same about 150-grain .30-'06 ammunition.

I have not been able to buy a box of 150-grain fodder in the last five years. Around this San Francisco Bay area it is quite easy to get either 180-grain or 220-grain ammunition for the .30-'06, but when one asks for 150 grain the clerk says, "Sorry, we did not get any this year."

I have . . . come to the conclusion that the wholesale jobbers order .30-'06 ammunition and take what they get.

GEORGE A. STEVENS

DEPT. OF UTTER CONFUSION

New York, N. Y.

Editor:

Which page of THE RIFLEMAN d'ya read? On page 112 (December) deluxe binders are advertised at $2.75. Across the way they're $1.95. Which is right?

GEORGE HARPER

● *Neither one, George. That $2.75 was a Christmas special, good to December 31, 1949. The price on page 113, a mistake. Today's price, a mere $2.95, postpaid.*—ED.

REPORT FROM JAPAN

APO 75, San Francisco, Calif.

Editor:

Here on Kyushu there are a great many of the large hawks so prevalent in Japanese art. They make fine targets and where one is firing towards the sea they are not hard to hit on the wing with a .30-'06. There are also plenty of crows but they are, if anything, smarter than those stateside. Other game, rabbits, quail, and all non-migratory types, are almost wiped out. Centuries of crowding and a semi-starving population have tended to eliminate most edible animals. This includes songbirds, snakes, and lizards. When we go out a couple of the local boys usually tag along to retrieve anything we shoot. They pounce on crows and hawks with apparent delight. No wonder there is nothing to hunt.

LT. LEROY A. MORGAN, JR.

BONE TO PICK

Cleveland, Ohio

Editor:

Brace yourself, since I have a serious bone to pick with you . . . You let us, and the readers of the magazine, down by publishing a letter from one Francis Von Muller, Jr.

(Continued on page 8)

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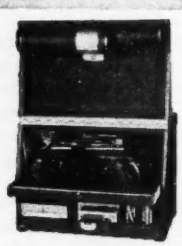

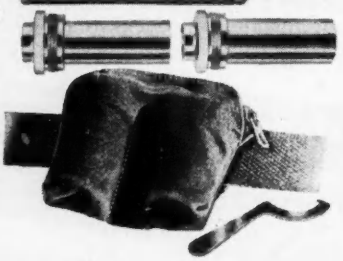

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(Continued from page 6)

(RIFLEMAN, October). This chap takes issue with us on the calibers in which the Remington M30 and the Winchester M54 were made.

I enclose photostatic copies of letters received from Winchester and Remington backing up our opinion. It would seem to me that THE RIFLEMAN should not publish a supposed correction to technical information unless it has been verified, or at least until the author of the supposed error has a chance to defend himself. As a technical magazine, you owe it to the members to seek out the truth, rather than to conduct a debate.

We think we know where (Von Muller) got his data, and it happens to be from a source which is in error.

B. D. MUNHALL, Manager
H. P. White Co.

LAWS DOWN UNDER

Victoria, Australia

Editor:

I have been fighting a lone war against the proposed new state law to compel the registration of all firearms but without much success. The general attitude, even among military authorities, is that it is of little importance or that, "If the police think it will help them to stamp out crime, why object?"

The rifle clubs say, "It won't affect us", so I am getting very little support, and, as I have been in the hospital for a large part of the time I cannot do as much as I would wish.

A very strange incident occurred in Australia during the first World War which might be of use to you for its bearing on the possession of arms by citizens. In that war, privately-owned firearms were not called in by the authorities, though they were in World War II.

The incident happened at Broken Hill, an isolated mining town in the interior of Australia. Shortly after Turkey entered the war against us, two Turks, one an ice-cream vendor and the other a butcher, resolved to declare a private war on Australia. On New Year's day 1915, they armed themselves with rifles, concealed themselves near the railway, twisted the Turkish flag on the ice-cream cart and awaited the passing of a train carrying a miners' union picnic. When it arrived they opened fire, killing three people and wounding a number.

The train steamed rapidly back to the town and reported what had happened, while the two Turks retired to a nearby hill. Fortunately, the authorities had not disarmed the people, and the citizens, chiefly rifle club members and a few police, armed themselves and went into action. After a good deal of shooting on both sides the Turks ceased to fire and were found, one dead and the other badly wounded.

If the privately-owned arms had been called in by the authorities there would have been little to prevent the two Turks from capturing the town.

This small incident, which is not without its amusing side, shows what may happen perhaps on a much larger scale.

Again thanking you for your journal which I find most useful and interesting.

C. CARRE RIDDELL,
Colonel, Royal
Australian Engineers

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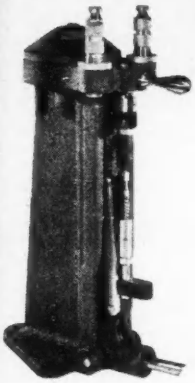

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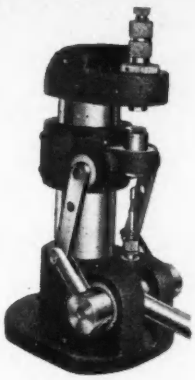

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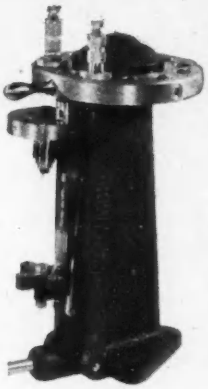

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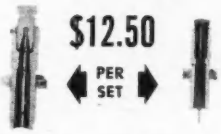

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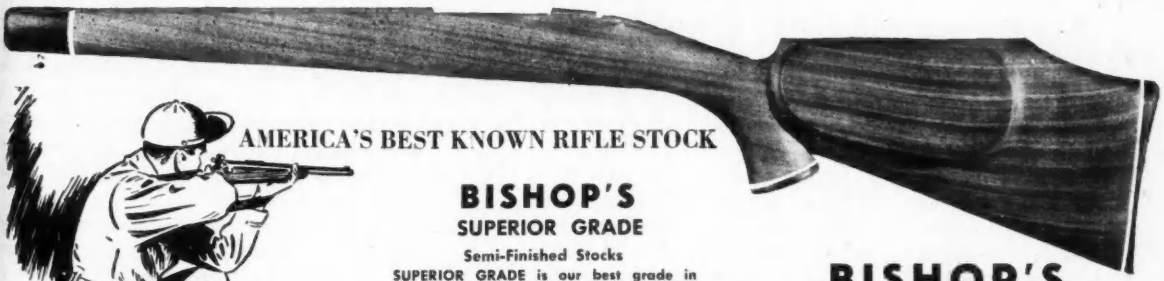

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Happy New Year . . .

With all due respect to our contemporaries of press, radio, and the political rostrum, we rise to object to the resounding chorus of worrying lament which would have the average American believe that he enters the New Year bearing on his shoulders the most crucial problems ever faced by man.

At the risk of being socially ostracized by the fellow members of our profession and drawn and quartered by our friends in the educational field, we humbly suggest that anyone with a real education in the history of men and of nations would refrain from the dissemination of such eyewash and would, instead, devote his talents to an analysis of those continuing cycles of storm and calm which have characterized the whole recorded history of mankind. From an intelligent study of past victories, won against tremendous odds, we would develop sensible confidence in *our* ability to conquer the problems of today.

The simple truth is that whole civilizations have been obliterated in the past. Whole nations have been brought under the yoke of slavery and serfdom. The clash of ideologies seeking the control of men's minds and bodies has never ceased since the beginning of time. What more did the atomic bomb do to the life of Japan than the mercenaries to the life of Carthage? Was the Inquisition a lesser problem to its victims than the scourge of Communism? The Caesars sought to retain their power by buying wheat in Africa at a dollar a bushel and selling it in the market places of Rome for thirty cents. Is there any *new* problem in the economic ideas of some governments today?

True, the world is 'smaller' now. Transportation is more efficient. Instruments of destruction can be carried further faster. But so can the instruments of disaster relief and the products of friendly commerce. Communications are more efficient. News of disas anywhere in the world reaches us overnight. But th same lines of communications just as quickly carry t news to the stricken that relief is on its way. Insidi propaganda is easier to disseminate over the world b the reverse flow of truth and encouragement n reaches wherever we have the intelligence and initi tive to send it.

Our forefathers came, almost barehanded, to a la of wilderness. They knew, better than we now kno the problems which men had faced and had overcom through the ages. The security they asked was th which their courage and their brains would gain f them. From their mud-streeted towns and their lo walled villages they fought the world's greatest pow to establish their right to govern themselves in t manner they believed to be best. Transportation w poor, communication painfully slow, but word their doing awakened the whole world to a new co cept of the dignity of the individual.

Have we, their children, no sense of shame that w should spend our time whining about the 'enormo burdens', the 'terrible problems' *we* face? Are w willing to admit that we have less courage than the Have we lost faith? Are we less able to use the i plements with which *we* have to work, fight, and spre the gospel of freedom in 1950 than they had worki with the instruments available in 1776?

For the New Year let us resolve that we will st sniffling and start studying; that we will stop worryi and start working; that with a knowledge of the p guiding the tools of the present, we will, as our fath did, lead the world to a brighter future!

Happy New Year!

C B Lister

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ANUA

The BUENOS AIRES matches

By FRANK PARSONS, JR.

Photographs by Arthur C. Jackson

SINCE THE '48 OLYMPICS, U.S. SHOOTERS HAVE NARROWED THE GAP BETWEEN THEIR PERFORMANCES AND THOSE OF OTHER NATIONS. HERE IS A DETAILED REPORT FROM A VETERAN INTERNATIONAL TEAM MEMBER.

THE RE-ENTRY of the United States into world championship shooting at Buenos Aires during November of 1949 ended a nineteen-year lay-off. It was at Antwerp in 1930 that the last American team had competed in the matches of the International Shooting Union. The 1949 ISU events, following American participation in the Olympic matches in England last year, mark a definite return to international competition by the shooters of North America.

A twelve-man squad picked from the high scorers in tryouts held at regionals and other matches this year represented the 'United States of North America' in Buenos Aires. The team, led by Colonel Paul M. Martin, team captain, and Colonel Charles F. Densford, adjutant, made the trip by air for the first time, arriving early on the evening of October 23, only twenty hours out of Miami, at the Moron Airport at Buenos Aires. The 14-man group was met by a host of Argentine shooters, members of the United States Embassy staff, officials of the International Shooting Union, and others.

Though the Tiro Federal de Buenos Aires was described in the RIFLEMAN (February 1949), the beauty, the completeness, and the safeness of the entire shooting establishment in which the ISU's world championship matches were to be fired was amazing to see. Within the city limits, the range has 105 targets for firing at 100, 200, and 300 meters and another section of 32 firing points for 50- and 100-meter shooting which was used for both 50-meter pistol events and three-position rifle matches. The Tiro Federal is fully enclosed at the firing points and so constructed that there is no possibility

of a shot escaping in any direction. It would be a great boon to both smallbore and big-bore position shooting in this country if we could have a few strategically-placed ranges of this enclosed type, even though we might never hope to have anything as fine as the Buenos Aires range.

Both rifle and pistol squads starting firing on the morning of Tuesday, October 25, to get in as much practice as possible. On Tuesday, November 1, the team took one holiday from shooting to attend an excursion and barbecue sponsored by the Argentine Federation. One evening the United States Embassy held a reception for the US team at which we had the opportunity to meet many Argentine officials and others. Except for these reliefs, the team practiced daily until the official opening of the matches on Friday, November 4.

The opening ceremony was an impressive one, attended by President and Senora Peron. Following a short speech, the flags of all participating countries were raised simultaneously, that of the Argentine being raised personally by President Peron. After a review, President Peron went to the rifle range and fired the opening shot of the 1949 World Shooting Championships.

That night the American pistol team which was to fire in the free pistol championship was announced. Team members were Harry Reeves, Detroit; Sgt. Heulet Benner, Fort Knox, Kentucky; W. T. Toney, Jr., Kingsville, Texas; Charles Logie, Grand Rapids, Michigan; and Capt. William A. Hancock, Fort Warden, Washington.

Logie fired a Colt Woodsman in the free-pistol event; Hancock used a Tompkins single shot. The other three members of the American team (and all members of the competing teams) used European free pistols with set-triggers. As the match progressed, it became apparent that while there were several fine individual shooters from Chile, Finland, Brazil, and Uruguay, the teams from Argentina, Sweden, the United States, and Switzerland were closely bracketed and would provide the winner.

When the official results were in, the well-balanced Argentine team had won the world's free-pistol championship with a team score of 2627. Sweden was second with 2621. The United States was third with 2616 and Switzerland fourth with 2611. Individual totals of the American team were Reeves, 547; Benner, 530; Toney, 519; Logie, 514, and Hancock, 506.

In the individual free-pistol championship, veteran shooter Rhyner of Switzerland was the winner with 548, while Harry Reeves did an outstanding job by finishing second with 547. Although Reeves had two low strings in the middle of his total course of fire, he finished with a resounding 95 on his last target. Third place was won by Senor Gonzalo of Spain, shooting as an individual.

In the inevitable post-mortem, the members of the U. S. team brought out a number of ideas which should be helpful to the American free-pistol shooter. They felt it was now conclusive that any potential winner of this match, team or individual, must shoot a single-shot match pistol properly fitted for the individual using it. Nearly all of the shooters felt that the free pistol of the conventional European type is the answer for them and probably for the average top-notch slow-fire shooter, although the value of the American single-trigger pistol was fully recognized. The majority of the team members felt that, in the future, the strongest American team could be selected by requiring the exclusive use of free pistols in the tryouts.

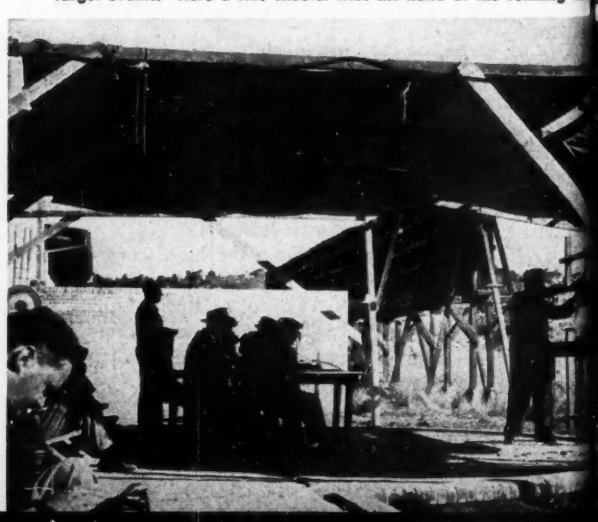
The big-bore 300-meter free-rifle team to fire in the Argentine Cup Match was announced on the night of November 6. It was made up of men selected on the basis of practice scores: Arthur Cook, Washington, D. C.; Arthur C. Jackson, Brooklyn, N. Y.; Robert K. Sandager, Minneapolis; August Westergaard, Whiting, Iowa; and Dr. E. O. Swanson, Minneapolis. Both Cook and Jackson used .30-'06 Model 70 Winchesters. Swanson used a rebarreled .30-'06 Martini. A great deal of thought had been given to the rifle-ammunition combination by each of our men in the match. Cook and Jackson fired their own handloads. Only two men in the entire match used a heavy trigger, both of which weighed-in at approximately 2½ pounds.

It was amazing to those from other countries that Cook and Jackson were able to secure the two high places on the American team with 'standard' rifles. Jackson used the plain block of a wood for a palm rest which he described in the RIFLEMAN (April 1949), while Cook, in firing the highest standing score of any man on the American team, used exactly the same standing position which he uses in 50-foot gallery shooting, with no attachment on the rifle—probably the greatest possible substantiation of the fact that the top-notch free-rifle shooter in the United States of North America can be a direct product of our 50-foot gallery rifle program.

Sandager and Westergaard used 6.5-mm. Swedish Shulz-Larsen bolt-action rifles with Swedish match ammunition. Sandager, who had been high man in the 300-meter tryouts might also be called a product of our 50-foot gallery program.

In a rare leisure moment, shooters were entertained at a gigantic outdoor barbecue. Spits in background hold broiled ribs of beef

The Buenos Aires program included a number of 'novelty' and gen target events. Here a rifle shooter tries his hand at the running de



aving been National Intercollegiate champion in 1937. It hould be noted that the scores of all three of these men, Cook ackson, and Sandager, would have been a credit to the team core of Finland, which won the Argentine Cup. All three of hem shot well-balanced scores in each position.

Westergaard, fresh from his win in the Ohio State Matches t Camp Perry and one of the first ten in the smallbore Naionals at Camp Dodge, might be said to have cut his teeth on tanding shooting. Clearly demonstrating his background uring the tryouts and matches, Westergaard returned to this ountry firmly resolved to develop a sound kneeling position ased on the knowledge he already had that no man can afford o have any weak position if he hopes to be among the leaders n four-position international shooting.

Veteran international team man Swanson, although not up o par physically, did a creditable job using a rebuilt Martini. Over many years, Swanson has proved himself to be a fine, ell-balanced shot in all positions.

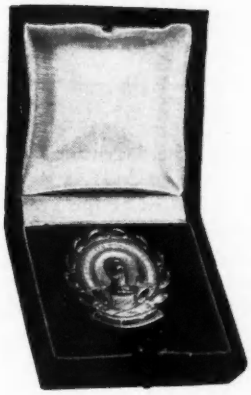
The United States of North America was the last country o adopt a rule allowing use of a cushion in the kneeling posiion. While the average youngster can get into a good kneelng position and continue to do so as he grows older, a great any shooters are unable for physical reasons to do so without he aid of a cushion. The cushion makes possible a very comortable and, at the same time, excellent kneeling position in lmost anyone's case. The kneeling positions of nearly every an on the high four teams were virtually identical, all of them sing a shooting cushion under the instep. Results show that he position permits extremely fine scores. American rifle hooters with ambitions of team membership in future years ill do well to adopt the cushion in their kneeling position.

For the second consecutive year, American shooting coats ere disallowed, due to their extremely stiff and heavy padding. The international viewpoint seems sound in believing hat the gun should be supported by the shooter and not by the hooting coat. It may be that we should recognize this fact in ur own shooting by restricting shooting-coat padding.

All shooters on the top four teams used bolt-action rifles ith either set-triggers or very light single-lever triggers. All sed palm rests and, usually, buttplates of their own design. The majority used the thumb-hole type of stock. There was, owever, nothing about any of these rifles which would appear uperior to what could be developed in America using existing ctions, barrels, and stocks. Several men used post front sights or standing shooting, securing extremely high scores in doing o. They changed to aperture sights for prone and kneeling.

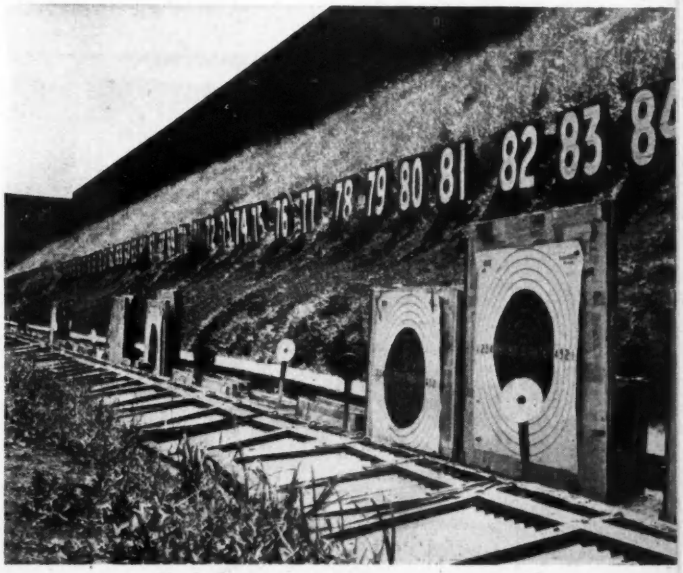
US team member Logie won match fired on an unusual silhouette target

The reward: Art Jackson's gold medal for first place in 50-100 meter prone match

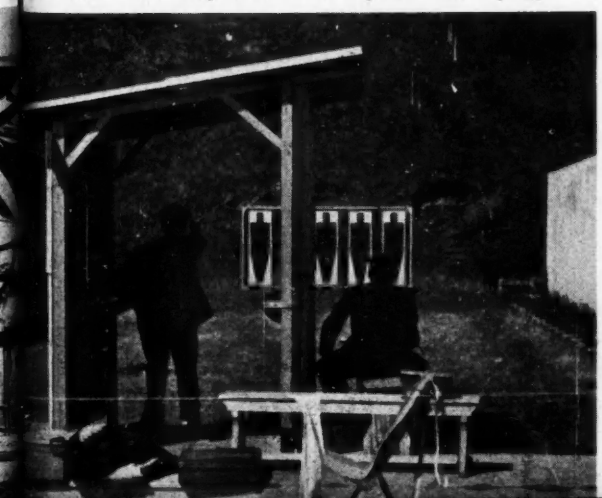


Arthur Jackson scored 594 to annex world prone championship

Below, targets and markers used in 300 meter free rifle event



ividual firing point was provided for each competitor in rapid-fire tol events. Note safety barriers between points. Photo by Logie



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The Finns had an ingenious idea. To combat mirage arising from the heated barrel, each had a heavy piece of black cloth tape about two inches wide fastened to the front sight which stretched back and hooked over the receiver. It was stretched taut and kept flat with a little metal band at each end, the tape remaining in place a fraction of an inch above the barrel itself and deflecting the heat waves from the line of sight. It was unimportant that the black tape did not necessarily stay exactly horizontal, since it was not noticeable in looking through the sights.

When free rifle scores were posted, Finland's five were on top with a 5512 total. Switzerland's team tallied 5508, Sweden in third place scored 5488, Norway totalled 5438, and the US team scored 5404. Argentina placed sixth with 5360. Here are the breakdowns of each stage and individual totals of the Finnish and United States teams:

Finland	*Standing*	*Kneeling*	*Prone*	*Total*
Elo	364	373	381	1118
Jahonen	364	372	382	1118
Leskinen	344	375	383	1102
Manttari	342	368	380	1090
Nordquist	348	358	378	1084
Total				5512
United States				
Cook	355	366	377	1093
Jackson	345	370	379	1094
Sandager	337	369	384	1090
Westergaard	332	353	378	1063
Swanson	338	357	364	1059
Total				5404

It is interesting to note that in winning the Argentine Cup match in 1930 the Americans fired a score of 5441, a score which, though appreciably better than that fired by this year's team, would still have secured only fourth place in the 1949 match.

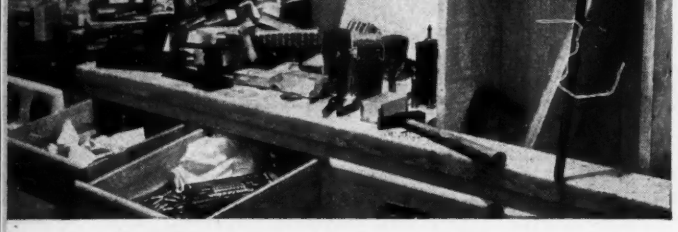
On Sunday, November 6, the defense pistol match was fired. It was an individual match, and one with the highest degree of spectator interest. The match was fired at 20 meters on an iron-plate target made up as the full-length side view of a man. The impact of a shot on the target would knock off the black paint, leaving a bright spot which made the hit easily visible. After the series of six shots was fired, an ingenious mechanical brush painted the surface a solid black for the next shooter. In firing the match, each shooter was required to stand with his gun in the holster or held in the left hand at the left side and at the proper command he would draw the gun and fire six shots within eight seconds. This was repeated until each competitor had fired a total of sixty shots.

The match condition required that a revolver or automatic pistol of .30 caliber or larger, with barrel length not exceeding 6½ inches, and with fixed open sights be used. Logie had brought with him a very smooth Smith & Wesson .38 and a large quantity of extremely light handloads to minimize recoil. Using these, Logie easily won the match with a score of 284 points, the next competitor firing 270 points. All other shooters on the American team used the same revolver and ammunition. Reeves finished in sixth place with 253, Borneman eighth with 248, Toney ninth with 243, Benner eighteenth with 220, and Hancock twenty-second with 208.

A number of experienced competitors from other countries used .32-caliber handguns, while a large percentage fired automatics. The idea of using a .38 caliber with a light load was something new.

The team selected to fire for the world prone championship, with smallbore rifle at 50 and 100 meters, was the same as that which competed in the Argentine Cup Match. The event called for 30 shots each at 50 and 100 meters prone with the .22 and the team felt it had an excellent chance to win. However, the excellent Norwegian team defeated us by ten points. When the match was over, Art Jackson was found to be tied with Skredegaard and Kongsjorden, both of Sweden, all three with the high score of 594. It was not until the final score came from the control room late that evening that we found that Art Jackson had won our first and only individual world championship with the rifle, having outranked the two Norwegians by X's. Team and individual scores were:

Jackson and Cook loaded own .30-'06 ammunition in kitchen of hotel suite. Cook's load: 38½ grains of 4895 powder behind the 180-grain Norma bullet



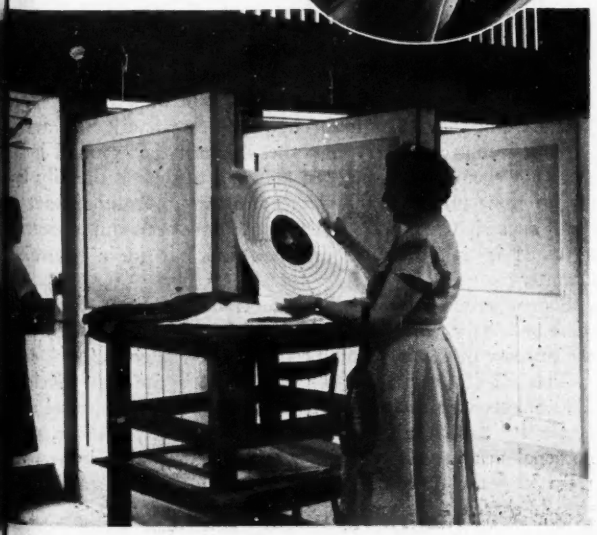
Buenos Aires range had armorer's shop, with full staff of gunsmiths. Most of their time was spent servicing Argentine Mausers used in the matches

	50 Meters	100 Meters	Individual Score	Team Total
1) Norway				2960
2) United States				2950
Jackson	297	297	594	
Cook	296	295	591	
Swanson	297	294	591	
Sandager	293	296	589	
Westergaard	291	294	585	
3) Switzerland				2933
4) Finland				2930
5) Sweden				2925
6) Argentina				2905
7) Brazil				2901
8) Uruguay				2856

There was no advantage derived from the arms used in this match, the American team being equipped with the heavy 22 match target rifles used commonly in registered competition at home. What we did learn was not new: that to win a match requires that you hold and squeeze just a little better than the other fellow.

On Wednesday, November 9, the three-position smallbore match for the Swiss Trophy was fired. The conditions of the match, of course, duplicated the Argentine Cup event though it was fired at 50 meters with the .22 rifle. The same team fired as had competed in the Argentine Cup match, each shooter using the same .22 rifle he had used in the prone match, with one exception. Since the rules permit the use of more than one rifle of the same caliber, Westergaard used a set-trigger Ballard in the standing position. In this match we again placed fifth behind the same four teams, although not all in the same order as in the 300-meter match. Arthur Cook did a particularly fine job, scoring 1163 to place second in the individual competition, behind Janhonen of Finland who took the world's individual title with 1165.

Westergaard used fine offhand Ballard in the position events. Note tube sight used



Argentine program even included a ladies' match! Here a feminine competitor pauses during offhand string while a team-mate looks over a fired target

This man-size target of cast iron was used in surprise fire match won by US team member Logie

Here is scoring arrangement used on rapid-fire pistol event. Team match went to Argentine group

The scores of the teams and individuals were:

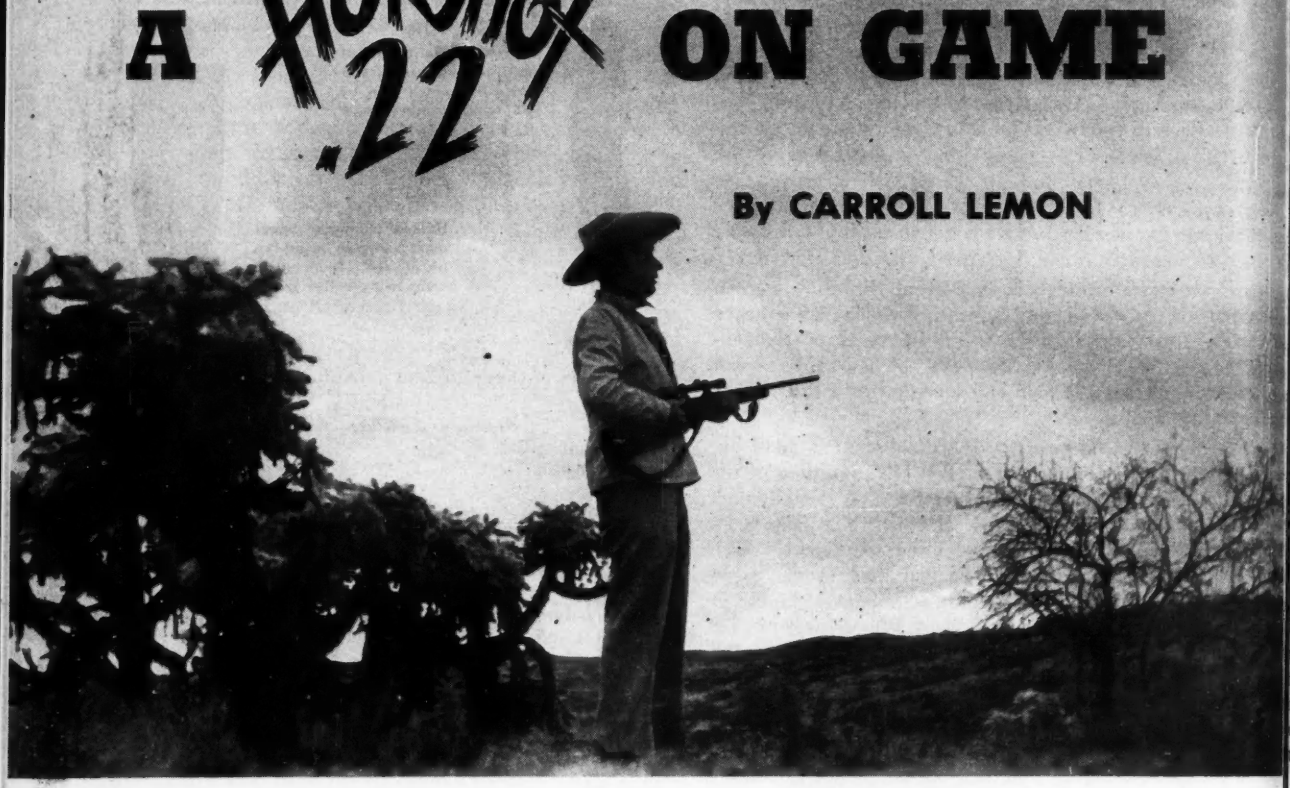
	Standing	Kneeling	Prone	Individual Score	Team Total
1) Finland					5770
Janhonen				1165	
Elo				1159	
Manttari				1152	
Leskinen				1149	
Ylonen				1145	
2) Sweden					5763
3) Norway					5755
4) Switzerland					5738
5) United States					5725
Cook	376	389	398	1163	
Sandager	371	385	394	1150	
Swanson	365	380	394	1139	
Westergaard	376	366	395	1137	
Jackson	358	381	398	1137	
6) Argentina					5643
7) Brazil					5480

The shooters who fired in the Swiss Trophy Match found it difficult to make recommendations, though the observation was made that the American shooter generally fired faster than those from other countries, which is understandable considering domestic rules. Every shooter on the teams which finished ahead of ours used a bolt-action .22 with either a set-trigger or a very light single-lever trigger. All used buttplates of the prong type and, in the standing position, palm rests to their own liking. Only Westergaard among our men used a palm rest in the standing position. Although we consider our match rifles better for prone shooting than the free rifle, two out of the top teams had a higher prone total than we, although by comparison our team did much better there than in the kneeling and standing positions. Again all the members of the top four teams used the kneeling cushion and an almost identical kneeling position.

On Thursday, November 10, the center-fire team match was fired. This is an event limited to pistols or revolvers of at least .30 caliber with a maximum barrel length of 7½ inches and a minimum trigger pull of one and one-half kilograms (3.3 pounds). The course of fire was 60 shots, to be fired on the South American pistol target within a time limit of three hours. The match was an extremely close one, with the United States and Switzerland so near in total score that the result was not known until the following day when the United States was declared the winner with a one point advantage over Switzerland. The win was the old story of having an evenly balanced team with only a fourteen point spread from the high man to the low man. The second place Swiss team had a 34-point spread. All members *(Continued on page 33)*

A Hot-Shot .22 ON GAME

By CARROLL LEMON



YOU'LL BE INTERESTED IN THIS ACCOUNT OF A HIGH-SPEED .22 ON MEXICAN GAME, BUT DON'T DASH OUT AND BUY ONE TODAY. THERE ALREADY ARE TEN STATES IN WHICH YOU CAN'T USE IT*

BEING AN AVERAGE guy with a fair share of curiosity I had been wondering for a long time just what to believe. According to the various writers peddling the low-down on the .22 speed burners, one of these fast-stepping pellets would knock the brains loose on a moose . . . it wouldn't shake ants out of their pants . . . it was sure death on antelope at 500 yards . . . jackrabbits kept right on feeding when drilled through the middle, and so on and on. In other words, nothing could have been more contradictory than the claims being made for the different cartridges in this class.

My friend Jack Holliday used the .22 Varminter on a nice mean grizzly up in British Columbia and came back all in one piece. Using the 41-grain Sisk bullet loaded to a velocity of 4,500 feet a second he broke the animal's shoulder on the first shot and put the next one in the chest cavity for a KO. These two bullets certainly didn't blow up on the surface as many claimed they would. Jack O'Connor, who was on the trip, opened up the bear for a firsthand look at the results and found that the lungs were well scrambled.

A moving picture which showed a large moose as it was hi with another wildcat cartridge, the .228 Ackley using the 70 grain bullet at 3,600 feet, was also very impressive. That bi phlegmatic bull just stiffened and rolled over.

On the other side of the fence the experts were wailing lon and loud, classing all the super .22's as a bunch of hot ai killers. One shot an eagle through the ticker and it flew awa without losing a feather. Another claimed that ground hog were not even greatly annoyed at being tickled in the ribs b one of these pills at 4,000 feet per second. Another shot small buck right where its heart should have been and it merel switched its tail a couple of times and left for a healthi climate.

Somewhere in between all this contradiction I felt that the must be a happy medium, so in 1942 I acquired a .22-250 fo the purpose of getting some firsthand knowledge.

The .22-250 cartridge, or Varminter, is the very efficien .250 Savage case necked down to .22 caliber. If a barrel an action for this cartridge are properly fitted in the stock, ph nomenal accuracy is possible with bullets ranging in weigh from 35 grains up to 60 grains and at velocity levels as low the .22 rimfire to better than 4,000 feet per second.

* Because of caliber and bullet-weight restrictions. The states are Arizona (on deer), California, Colorado, Georgia, Minnesota, Missouri, North Carolina, Oregon, Virginia, Wyoming.

Fortunately I was able to get a supply of prewar Sisk bullets of 41 and 55 grains. After working the stock bedding over a couple of times for the best possible fit, the rifle would shoot either of these weight bullets to nearly the same point of impact up to 250 yards. When the gun was sighted-in at this range it was only two inches high at 150 yards and between two and three inches low at 300. With the sight so set I began working over the jacks and coyotes and found that I could do a better job of shooting with the .22-250 than I ever had with any other rifle. With such fine accuracy and flat trajectory it was not necessary to worry too much about either range or wind, and I could concentrate on getting off a well-aimed shot.

During these experimental days my hunting companion was Jack O'Connor, who also had a rifle in this caliber. Between the two of us we made it mighty tough on the predators. The country we hunted was rolling, with hills sparsely covered with catclaw and cholla cactus. As a rule it was possible to pick a good spot to shoot from and to get off several well-aimed shots. After a bit of practice with our new rifles the rabbits under 400 yards that escaped us were the exceptions. By that I do not mean to imply that we could pick off a jack at that distance every shot, but each miss would be so close to bunny that the law of averages was against its survival.

By this time I had settled on the 55-grain express bullet for all-around use because it sustained its velocity well over long ranges and, of equal importance to the precision shooter, it was less susceptible to wind drift. Loading this bullet ahead of 36 grains of DuPont 4320 and using a .046-inch graphite base wad gave exceptional accuracy, and from all indications it was stepping right along. I estimated the velocity as 3,700 feet or over, judging by the flatness of the trajectory. In some rifle chambers this load may be a bit on the hot side and any one planning to use it should start a couple of grains under this figure and approach the maximum with caution.

In Jack's rifle 34½ grains of the same powder with the 50-grain Sisk bullet gave him what he was looking for.

With those light missiles traveling at such speed, jackrabbits were literally torn to pieces. Even poorly placed shots caused instant death. I well remember Jack shooting the front foot off of a rabbit. It rolled over as stiff as a poker. I don't know whether the rabbit or we were the most surprised but it was a conclusive demonstration of what velocity alone can do. Coyotes too, if hit solidly, were snuffed out like a light. Most of the time the bullets would blow up inside the pups and they just ceased living. For anyone who doubts the stamina of a coyote I can assure you that they have all of their share. Many a time I have drilled one of these speedy babies through with the .30-'06 and had him keep on going for a considerable distance.

About this time we ran out of bullets and had to rely on the wartime variety whose jackets were made from .22 rim-fire cases. With these we did not get the accuracy we had been getting and the performance of these on flesh was quite unpredictable. Often they would blow up on the surface of the skin without giving any significant penetration. On one occasion I shot a coyote five times and had to finish him off with a 41-grain prewar bullet.

In February of '45 I was fortunate enough to get hold of another bunch of 55-grain bullets made before the war. Javelina season was just starting in Arizona so I loaded up a batch of ammunition and went pig hunting.

The first time out I was barely out of sight of the car when a couple of coyotes bounced out of nowhere and took off up a steep hillside. They both disappeared in an arroyo and when they came in sight again I could not resist any longer and cut loose at them. My first shot rolled one back down the bank and of course the other really lit out. I just had time to get off one good shot and saw the coyote stumble but it kept on out of sight. Up where I last saw the game I found a good blood trail and a hundred yards farther on I found it dead. Shot through the heart it had kept right on going until it bled to death. The other pup had taken a bullet in the base of the neck so of course there was no argument.

For the next hour or so I traveled through some very rough country. It was rugged going not because it involved any climbing effort but because the whole area was a sea of boulders of every size and description. So when I came to a friendly little stream, heading for the valley below in no particular hurry, I was glad to visit awhile. Resting and looking was a pleasant task and I was combining it with a bit of daydreaming when a movement in some low brittle bushes on the opposite hillside snapped me out of it. There, running right toward me at about 200 yards, was a javelina. Not knowing what had startled the animal and fearing that it would turn and disappear, I steadied the crosshairs of the scope the first time they rested at the base of the pig's neck and squeezed the trigger.

When the rifle cracked the animal lurched, turned sharply to the left and was gone. Then it popped into view again running hell bent through some mesquite trees along the edge of the creek. Before I could get my sight on it for a second shot it pitched forward on its snout and skidded to a stop. An on-the-spot autopsy revealed that the bullet had entered just forward of the shoulder, ranged back through the lungs, ending up in the paunch. The spent missile was recovered with about half the lead still with jacket.

From the results obtained on this pig and the coyote killed previously there was every indication that these bullets were of heavier construction than any I had used previously.

Weighing about sixty pounds, the full-grown Sinaloa whitetail deer is soft pickings for the potent, high-velocity .22-250 Varminter cartridge

Margie went with me the following weekend and made a fine shot on a javelina running broadside to us. The animal went down when she shot, but was thrashing around and since it was partly hidden we could not tell if it was done for or not. While she watched to make sure it did not get up and get away I went over. It was necessary to cross a small gully and by the time I got to the pig it was very dead. The .22-250

A fast-stepping .22 has ended the predatory ways of numerous coyotes

bullet passed through the animal in the kidney area without touching a bone. The result was instant paralysis.

By the time another javelina season came around I had learned a great deal about the .22-250 and of course took it with me. This trip I went to a different area where I had noted much pig sign the previous deer season. Climbing up on a sharp ridge that paralleled a narrow valley where a trickle of water was visible winding among the palo werde trees, I proceeded slowly, watching for the slightest movement with my binoculars.

This particular trip was one of the few times in my hunting career when a hunch paid dividends. Usually they are not worth a darn, but now the second time I used the glasses a pig was visible standing in the noonday shade. The distance looked like 500 yards so I planned my stalk.

By dropping down a side canyon it appeared possible to get within good shooting range without revealing my presence. The only hitch was that my nice quiet sneak happened to take me right through the bed of a whitetail buck who bounded out in front of me and headed straight for the pigs. There was no doubt in my mind what would happen when that deer went tearing through the creek bed so I ran up on a point and hurriedly picked a shooting position. True to form the pigs were not the least bit interested in what had frightened the deer, only in getting out of there. In single file they were hitting it down the opposite side, and the range looked to be three hundred yards. Holding level with the back line and even with the nose of a full-grown pig, I touched off the trigger. The animal folded up without a kick. Examination showed that the 55-grain bullet entered the small of the back just under the spine and angled forward, coming out behind the shoulder, too high for a heart hit but scrambling one lung.

If you are not familiar with the wild pigs of the Southwest, more correctly known as collared peccaries, they are not large animals. They are mostly bone, muscle, and bad disposition. A full-grown hog will seldom weigh more than forty pounds field dressed with not an ounce of fat on its lean frame.

To date Margie and I have accounted for six javelinas with the potent little .22-250. Each has been a clean one-shot kill. I know comparisons can be misleading, but for whatever it is worth I have witnessed two pigs that were shot through the body with a 117-grain .257 bullet and one with the 170-grain .30-30 and in each instance a second shot was necessary.

By the time twelve coyotes, two badgers and four javelinas had fallen to this 55-grain bullet a certain amount of respect began to creep through my bones for this cartridge. The result was that in 1946 I took the rifle down into Mexico.

The particular area we were headed for was well within the range of the Sinaloa whitetail deer, a smaller brother of the Arizona deer. Even mature bucks would seldom weigh more than sixty pounds and there was no reason to doubt that .22 speedsters would prove adequate on game of this size. At least I intended to find out if the opportunity came my way.

The country we hunt in below the border is very open, mostly rolling hills with plenty of palo dulce bushes for good feed and a sprinkling of live oaks for protection and shade. It is ideal for long-range precision shooting, as the shooter usually has ample time to get off several well-aimed shots. With this knowledge I planned to carry the .22-250 in the saddle boot and to use it only when I could place my shot and observe the result.

Pedro, the Mexican rancher, was riding behind me as we

One shot from the .22-250 killed this buck, the bullet breaking on rib in entering the chest cavity, two ribs on the far side, and clipping the top off the heart. The bullet did not emerge from the de

started through a pass in the sun-tanned hills. My brother Gordon, and his wife, Genelle, were just over the ridge and riding parallel to us as they headed for the same pass. Suddenly on the skyline above us a small buck stood up and looked in our direction. Here was a chance for the .22-250. The distance looked at a glance to be close to 300 yards so I held two-thirds of the way up on the animal and squeezed

the trigger carefully. To me it appeared that the deer dropped from sight in the tall grass before the bullet could possibly have reached him. While sitting there waiting for some signs of the game Gordon came over the ridge and I motioned to him where the deer had been. He walked in the direction I had pointed then stopped, raised his rifle and fired.

The buck was a small one, weighing perhaps fifty pounds. Gordon said that as he walked toward it the deer raised its head and looked at him but made no attempt to get up and he shot it in the neck. On dressing the deer out we found that my bullet had entered a little too far back for a clean kill but there were no bones broken that would have disabled it. All that we could find of the bullet was a few small pieces of jacket material in the paunch and far flank. The animal appeared dazed and incapable of motion.

For the next two days it was either raining or threatening so we huddled about our gasoline cook stove and tried to keep warm in our one-room adobe hut. On the afternoon of the second day there were signs that the overhead was breaking up so we decided on a short sashay around the mountain. Gordon took the .257, I the .22-250 and we hit for some rugged-looking powder-blue cliffs that rimmed the mountain above camp.

Crossing a shallow saddle in one of the ridges that descended across in front of us we parked on the far side to look the country over. The slope swung around to the west to form a semi-circular basin ahead so we were in a good position to take any game that might get up. Through our rifle scopes we could see a well-used game trail angling up across a shale slide to a pass that led over into the next canyon.

"I'd sure like to see one of those smart old bucks try to climb out of there now." Gordon thought aloud as he looked the land over. "Look, there is one." And I knew from the excited tone of his voice that he wasn't kidding.

Nearly half-way up the slide I now could see a very dark deer climbing steadily up. As Gordon fired, the animal slid a length backwards and tore back down, quartering toward us at a slightly higher level.

The deer was now running through a field of large boulders. When it passed broadside between two of these I shot. It was at once evident that the deer was hard hit for it swung straight down the mountain at right angles and with a serpentine motion that made it appear as if it would pile up at the end of every jump. At the next large opening I fired, and when we saw it again it was sliding down the mountain hind feet first. Piled up against a catclaw bush we found a fine, mature whitetail buck.

Both of us were anxious to see what those tiny bullets had done on a full-grown buck so we put our knives to work. Gordon's shot that turned the deer broke the right hind leg above the knee joint. My first shot went in just back of the rib cage and ranged to the rear, passing through the intestines below the kidneys. The second hit entered the left leg just below the hip socket, thoroughly shattering the bone and also breaking the leg bone on the other side.

Two days later we went up on top to hunt some brushy pockets that looked promising. A small buck jumped out of one of these, ran around the sidehill for one hundred and fifty yards, and stopped broadside. I handed Gordon the .22-250 and asked him to hold for a heart shot. At the crack of the rifle the buck jumped sideways toward us and lit half on its back with its feet up in the air. The expression 'it never even kicked' would have described the animal's action fully. On opening up the chest we found that the bullet had clipped off one rib on entrance, the top of the heart, and two ribs on the far side. No metal went on through.

"By the time the .22-250 had accounted for several tough javelinas, I had a great respect for it"

The author and one of the javelinas taken with a single .22-250 shot

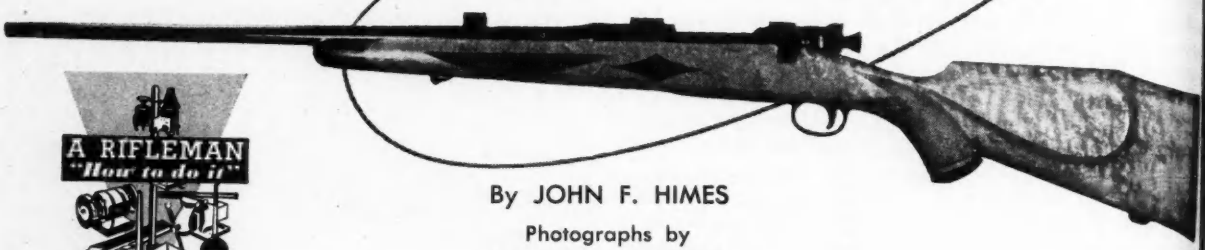
Since then I have killed any number of owls, crows, jackrabbits, one bobcat, twelve coyotes, and two more javelinas with this souped-up .22. These actual field experiences and the results observed have enabled me to arrive at some very definite conclusions regarding this cartridge in particular and all high-speed .22's in general.

First, and it is surprising how often this most important factor is overlooked in appraising the true merits of a cartridge, is the use of proper bullets. It is not so much a question of knowing what to use but rather of finding a missile that will meet your requirements. The jacket material must be heavy enough to withstand high initial velocity and, if game is shot at close range, to give adequate penetration. At the same time the bullet must be so constructed that it will open up at long ranges when the velocity has fallen off to a fraction of its former speed. It can readily be appreciated how difficult it is to build a bullet that will perform properly at 4,000 feet per second and equally well at 2,000, as compared to the average cartridge with a practical velocity range of from 500 to 750 feet per second.

It seems to me that the closest thing to an ideal bullet for these hot-shot .22's would be one built on the principle of the Core-Lokt but with a sharp spitzer point. The idea is that the Coke-Lokt principle would keep the jacket and core as an integral unit regardless of the velocity at impact. The spitzer soft point would combine the ballistic shape for sustained speed with the best known type of point for reliable expansion. I and a few thousand other guys would certainly go for such a bullet.

Second is the matter of choosing a bullet of proper weight. After giving them all a whirl I settled on the 55-grain sharp point as coming the closest to all the requirements. It has the sectional density to sustain its velocity over long ranges, is less susceptible to wind drift than the lighter ones, penetrates well, and if properly made, gives *(Continued on page 36)*

LAMINATED STOCK BLANKS



A RIFLEMAN "How to do it"

By JOHN F. HIMES

Photographs by
WILLIAM PETERSON

AT THE BEGINNING, I think I should define the term lamination. According to the dictionary, laminate means to make up of thin pieces. However, in general woodshop practice, it has come to mean something built up of two or more pieces with the grain running parallel. Plywood, on the other hand, is generally thought of as a unit of two or more layers in which the grain of adjoining pieces runs at an angle of 45 to 90 degrees.

Gunstocks may be laminated for several reasons. The first is to secure, by use of different woods, a stock with no tendency to warp and which, at the same time, will have its tendency to swell or shrink minimized and controlled. Another reason for laminating is to allow the use of fancy woods which very often are unstable in a solid stock. My own DCM Enfield is stocked in laminated curly maple which is a beautiful but unstable wood. A third reason would be to use wood too thin for a full stock. I recently stocked Al Barr's .219 Donaldson Wasp in rosewood, which is all but impossible to buy in this country in any thickness greater than 1½ inches. I used three ¾-inch pieces. The average shooter cannot see the joints unless they are pointed out.

Some shooters may want to laminate woods of several different colors, built up in a symmetrical pattern which can be made very striking in appearance. Still another reason for laminating would be to allow use of inferior wood A stock made up of 1/16- or ⅛-inch pine, properly impregnated and glued, would behave on the range as well as the best solid walnut, although it would not be a thing of great beauty. Very thin plies may be thoroughly impregnated with preservatives which will not reach more than ⅛ inch below the surface of a solid stock.

Before laminating our stock, which is to be free from warpage, we should first understand how and why a piece of wood changes its shape. The only changes great enough to affect the accuracy of our rifle are caused by changes in the moisture content of the wood. You will note that I say 'change of moisture' and not just 'drying out'. A dry stock picking up moisture can 'walk' just as much as a wet one drying out. Further, the unfortunate fact is that wood does not contract or expand evenly in all directions. The movement parallel to the grain (lengthwise) is very small compared to that across the grain. And across the grain, the movement is almost twice as great along the annual rings as it is along a radii of the log. (See Figure 1. Of course, this is exaggerated enormously for clarity, but it will explain many disappointments in wood working.) We can take quarter-sawed black walnut, in which the width runs along the radius of the tree from which it was cut, and the thickness parallel to the bark, as an example. A loss of five percent moisture content will shrink the width of such wood about 1.3 percent and the thickness about two percent. A gain of five percent would put it back.

This is true only of actual quarter-sawed or vertical-grain lumber as it is known in softwoods. Only a small percentage of commercially cut lumber has a true quarter grain, although a good bit of it is sold as such. According to standards set by the millmen, it is quarter sawed if the angle of the grain through the thickness is 45 degrees or more.

Figure 2 represents a section of a gunstock fore-end in which the annual rings are at a 45 degree angle. The dotted lines represent the shape after an exaggerated swelling. You can see that the barrel groove has exerted much more pressure on one side of the barrel than on the other. Of course that would knock any of us out of a match.

In a laminated stock we can use this 'angled-grain' wood if we build up our laminations in such a way that this change of dimension will be equal and opposite in opposing plies (Figure 3). Here we have the same fore-end built up of three plies of wood. The center ply, or core, as it is called, contains the ideal quarter grain and the two side pieces, or faces, have the annual rings opposing each other. You will also notice that the annual rings are curved so that the bark side of the log is towards the top of the stock in both pieces. Towards the bottom would be as good, but they should be the same in opposing plies, and opposite in adjoining plies. Such a perfect grain

he core is desirable, but not necessary, because the joints of aterproof glue do much to seal and thereby stabilize it.

The plies of our lamination run in a vertical plane. That abilizes all side movement and leaves us only the possibility f a minimum of up and down change. To laminate in a orizontal plane would work opposite and warpage could leave gap alongside the barrel which would call for Plastic Wood.

My sketches show three plies. This is the simplest and, I elieve, the best under home workshop limitations. Of course, wo plies would be more simplified (and I have made them that ay), but it takes three or more pieces to gain maximum sta ility. If one face in a two-ply construction makes up its mind warp, it need only bend its mate, whereas in a three-ply job here would have to be a sliding motion along the core in rder for it to give. Starting with three, we may build up an lmost unlimited number of plies, always ending up with an dd number as we add opposing pieces. Five pieces, though, re the maximum number I would recommend for reasons to e brought out later. A ¼-inch core, a pair of veneer (1/20- r 1/28-inch) plies, and then two one-inch faces, make a very ttractive stock if the woods are of contrasting colors. The eneer should be comparatively straight grained to avoid racking as the glue dries. Also, so little of it shows that here is no use spending extra money to get fancy grain. These eneers are so thin that they act about the same as a heavy glue oint and need not have opposing grains.

Having the annual rings in our plies opposing each other is ot enough. We should at the same time have our longitudinal rain 'run off' in opposing directions too. The grain in a rotch or burl is almost impossible to match up in opposing lies, but we can most nearly accomplish this by cutting the wo pieces from the same plank as shown in Figure 4.

Besides the grain of the wood, we should also consider the exture where several different species are used. The different inds of wood should expand and contract almost the same to nsure lasting strength of our glue joints. As an example, hite pine and oak would be a poor choice because their char cteristics are so different. Using the thin veneers suggested arlier we can obtain contrast by staining if necessary. They re thin enough so that stain will penetrate completely through. e sure that the stain is not oil based because that might pre ent glue from taking proper hold.

One more thing before we leave the choice of wood. To revent too much cussing, it is well to plan the number and hickness of your plies so that the barrel and action finishing uts do not run along a glue joint. You will find that the ood immediately adjoining the glue is considerably harder nd your cutting tools will invariably cut too deep or not deep nough. Let the joints fall completely inside or outside of hese finish cuts.

Preparing the surfaces to be glued is one of the most impor ant steps in laminating a blank. For a satisfactory glue joint, hese surfaces must fit together perfectly, yet we should not and them. As you know, when we raise the grain of a com leted stock we use steel wool to lasso the whiskers. Sand aper would 'iron them down' instead of pulling them out. aving them ironed down would produce, in our glue joint, a itting together of a bunch of half-broken wood fibers. How ver, we should not steel wool the surface either, because the ne powder produced this way fills the open pores and is very ard to remove completely. I find that the best preparation is run the wood through a thickness planer or joiner, if you ave one wide enough, and then with a wide, straight scraper, emove the cutter ridges. My own scraper is an eight-inch iece of power hacksaw blade with one edge ground true and slightly beveled. Incidentally, the other edge is ground into several curved surfaces for external shaping, especially along the fore-end. Al Barr achieves the same result with a nicely ground flat mill file which has the advantage of greater stiffness. This scraping is hard and tedious work because you must reverse the direction from time to time and even scrape across the grain if you are using curly or bird's-eye maple. Stick to it though, bearing in mind that the strength of the glued joint is dependent largely upon the percentage of wood surface making intimate contact. A gap of several thousandths, even though filled with glue, becomes a brittle, weak spot in the construction. The commercially-cut veneers which I have mentioned are surfaced well enough to glue with no further preparation.

Having surfaced the faces properly, we are ready to glue.

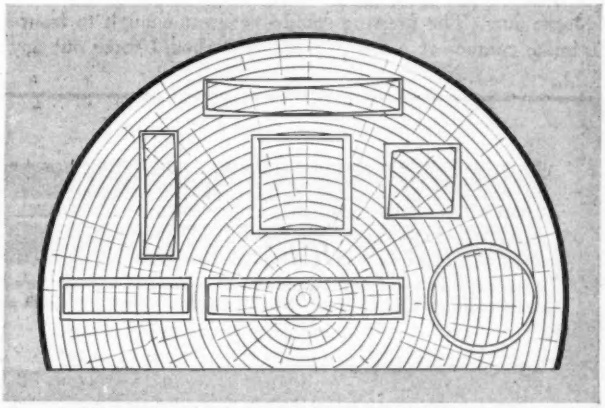


Figure 1: Characteristic shrinkage and distortion of flats, squares and rounds as affected by the direction of the annual rings. A knowledge of shrinkage characteristics is essential in selecting wood for good gunstock blanks

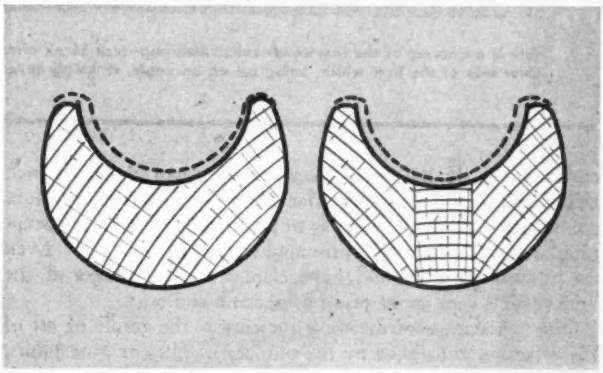


Fig. 2: Swelling in the barrel groove of a solid fore-end. Figure 3 (right) shows shrinkage in a vertically laminated stock made up of three elements

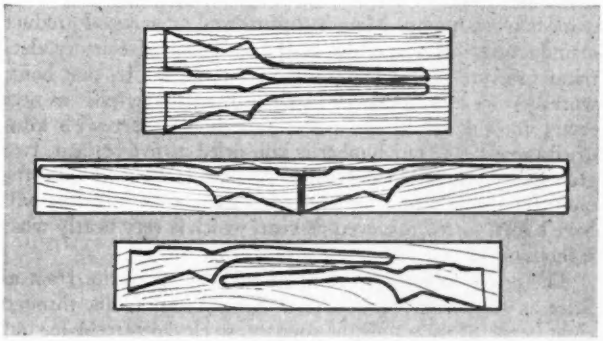


Fig. 4: Layouts for face plies in which the annual rings oppose each other

First, though, let us return to our old moisture content again. Almost all of our glues contain water so it is easy to understand that each glue joint will add moisture. The amount added varies greatly and is dependent upon the temperature of the wood, the consistency of the glue, the pressure of the clamps and the grain of the wood. The wood should be between 70 and 90 degrees F. for average conditions. To make it warmer might help a little, but would so hasten the setting of the glue that I would not recommend it. You may not get all of the clamps on quickly enough. The consistency of the glue should follow the manufacturer's specifications. Usually, they mix to a thick cream that will spread easily. By all means, coat both surfaces to be glued. In spreading your glue on one surface only, you may save as much as five or ten cents worth of glue, but remember that a 'dry spot' may ruin several dollars worth of wood and a lot of hard labor. All surplus will readily squeeze out. The pressure should be great enough to insure intimate contact of wood to wood, and should force out any air bubbles. If the outer faces are less than about ¾ inch thick, you should pay particular attention to having pressure applied around the edges so as to prevent the wood from 'cupping' away from the moisture applied to the glue side. Even the thicker pieces should have clamps on both edges at the wider points such as the pistol grip, comb and butt.

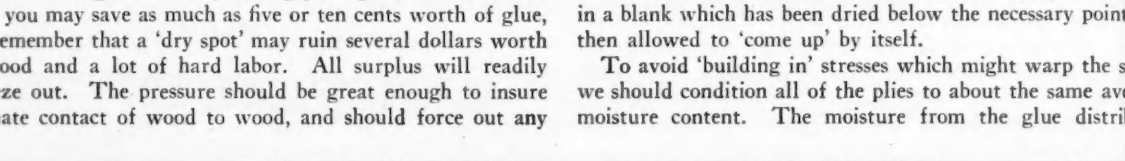
The percentage of moisture increase is the result of all of these factors multiplied by the number of plies or glue joints. It can vary from an increase of two percent in two 1½-inch plies to as much as 45 percent in very thin plies such as those used in late Mauser stocks. Of course, I am speaking of home workshop conditions. Many furniture and other wood-product manufacturers overcome this by the use of high-frequency electrical pressure plates and similar apparatus. In our home workshop we must plan our blank to have as few plies as necessary for the results we want and should start with kiln-dried lumber. If our lumber is kiln dried at five percent, two glue joints (three plies of about ¾ inch each) will raise the moisture percentage about five percent, and our blank will have a total of ten to eleven percent, which is very nearly what it should be.

The desirable moisture content for a blank varies from as little as six percent in Arizona, Nevada and Utah, through eight percent for most of the country, to eleven percent for our southern coastal areas. These are average figures only and vary considerably with the weather. A change of twenty per cent of relative humidity at 70 degrees F. will change the moisture content of a piece of wood about eight percent if the change lasts long enough for the wood to adjust itself. Here in Baltimore, relative humidity varies between 40 and 75 percent, going, of course, as high as 95 to 100 percent during prolonged wet spells. This will vary our wood moisture content from seven percent to 25 percent with an average around eleven percent. This is one reason why we should store a kiln-dried blank for awhile to allow it to adjust itself.

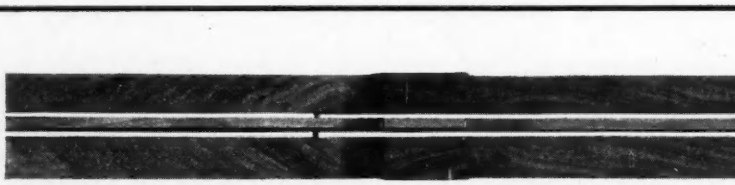
Most dealers, especially those doing semi-inletting, supply blanks at about seven percent moisture content. This is desirable because the moisture is much more evenly distributed in a blank which has been dried below the necessary point and then allowed to 'come up' by itself.

To avoid 'building in' stresses which might warp the stock we should condition all of the plies to about the same average moisture content. The moisture from the glue distributes itself throughout the blank and if our plies varied too greatly we should have the dry ones trying to expand while glued to wet ones, which remain stationary. For this conditioning process, I have a plywood cupboard about four feet high and two feet deep by two feet wide. It has a semi-circular top and a partial partition in the center. By the use of an infra-red heat lamp on one side, the air is made to circulate up that side across the top and down the other side, where it passes a silica gel container (Davidson Chemical Company, Baltimore, Maryland) to remove moisture, then across the bottom to start over again. Even with no insulation, the single heat bulb maintains a temperature of about 90 degrees F. The cut-out plies and blanks are set on racks on both sides of the partition. The heat bulb will scorch wood within about twelve inches so the blanks must be stacked accordingly.

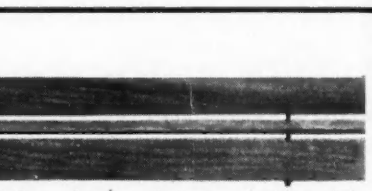
I know that so much moisture content has by now become pretty dull reading, especially since most shooters regard it from a very detached point of view, because they have always had to take someone else's figures on it, or maybe just guessed. An experienced man can say whether a piece of wood is wet or dry by crumbling shavings or chips between his fingers. But he cannot tell you the percentage of moisture contained. However, it is easy and very practical to find this percentage yourself if you have a powder scale. Even without one, your neighborhood druggist would probably weigh a sample for



A laminated bull-pup stock before gluing. Consists of a ½-inch core of walnut and two one-inch faces of rosewood. Because the trigger linkage cutouts were made in the walnut core before gluing, the two pins had to be used to align plies. Note opposition of grain in plies



Here is a close-up of the rosewood-walnut bull-pup stock blank after gluing. It shows the lower side of the butt which, being cut on an angle, strikingly reveals opposition of grain



This close-up of the same bull-pup stock, before shaping, shows opposition of the rings

...u. I weigh mine on a Pacific scale, which is not as fast as ...me of the direct-reading models, but is satisfactory. I slice ...piece of wood about ⅛ to ¼ inch thick from the inside of ...r stock wood. By the inside, I mean that it should be cut ...om the blank as far in from the edge as the wood is thick, ...d several times the thickness away from the end. For a ...lid stock blank, I generally make this sample about 2½ ...ches long and a ¾-inch laminated face ply, I cut the sample ...out five or six inches long. This will make the sample ...eigh about 150 or 175 grains, which is about the maximum ...r scale will handle. You can bake this sample in the little ...oman's oven at 350 degrees for about an hour and have it ...ne dry. You will find, if you are using an air-dried sample, ...at you have dried out 20 or 30 grains of moisture. By divid-...g the weight after baking into the amount of weight lost in ...e process and multiplying by 100, you will obtain the per-...ntage of moisture contained in your blank.

Incidentally, the commercial wood products manufacturer ...s a gadget consisting of two electrodes, a battery, and a ...eans of measuring the electrical resistance of a piece of wood. ...his resistance varies in proportion to the moisture content, so ...ith proper corrections for different species, he can find the ...oisture content almost instantly.

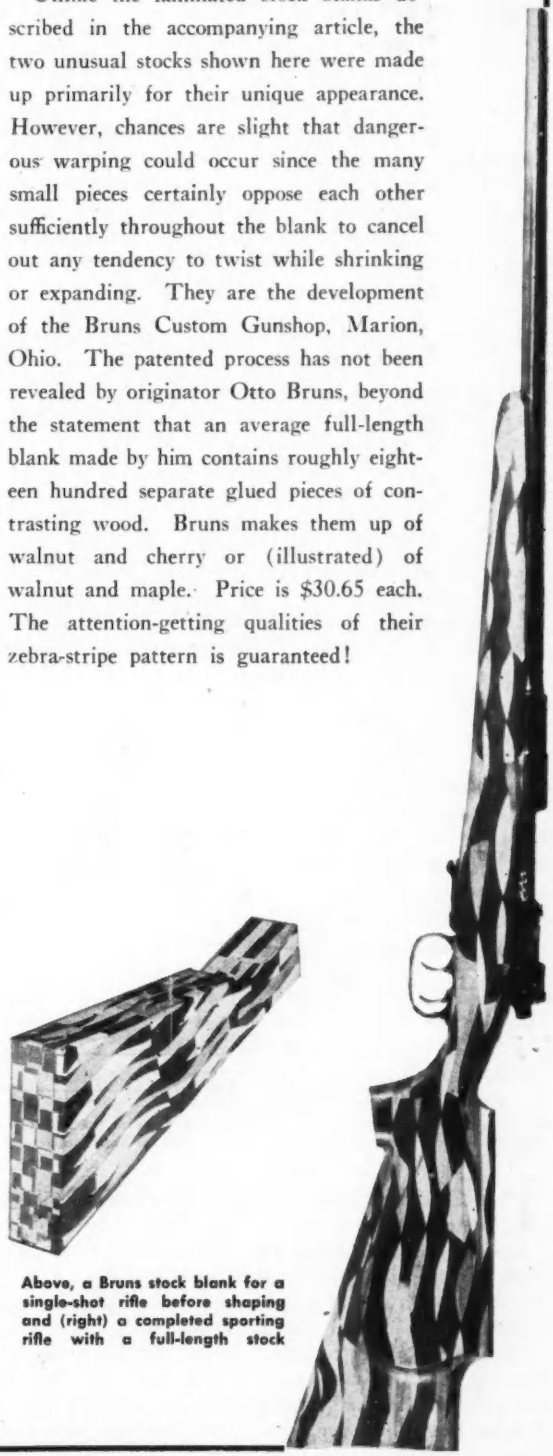
There's a word of caution I should put in here before we ...ove on. That 350 degree oven treatment should not be used ...n anything except thin scrap wood. If you were to dry out a ...re-end or butt stock that way, it would be ruined. The dry-...g is so rapid that the end grain would check badly, and even ...you overcame that, the surface shrinkage would collapse the ...et internal cells, ruining the wood's strength and hardness.

I know that this will start some of you on a scientific expedi-...on to the oven where you may want to measure the amount ...f shrinkage too. You will find, if you start with green lum-...er, that there is no shrinkage at all until the moisture content ...as come down to about 25 percent. This is known as the ...ber saturation point and it is extremely important to remem-...er when we consider dimensional changes in our wood. ...bove this point, the moisture lost is free water in the cell ...avities. Below this point, the moisture is imbibed water in ...he cell walls. It is the loss of this moisture which shrinks the ...dividual cells and consequently, the overall dimensions. It ...important, then, to remember that a change of, for example, ...ve percent in the moisture content results in a dimensional ...hange of 5/25ths or 20 percent of the total change possible ...om green to oven-dried lumber. In a two-inch square of ...ood, this total shrinkage will be about .020 inch tangential ...o the grain and about .012 inch across the grain.

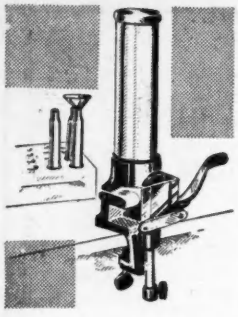
Now, we had better get back to that gluing. The choice of ...lue is not difficult. There are many satisfactory glues on the ...arket today. Cascamite, its new, more durable cousin, ...ascophen, and Weldwood are very reliable. I favor these or ...milar plastic or synthetic resin glues because they are ex-...emely simple to use, and are reliable. I am experimenting ...ith Durez, a phenolic plastic ready mixed, except for a ...talyst, which the manufacturers say will not add to the mois-...ure content. I have heard that Tego and Uformite glues ...ade by Rohm and Haas, the Plexoglass people, are very good. ...hese glues I have mentioned are, quite likely, not the only ...od ones on the market. They are the products most ...eadily available in this community, or glues which have been ...nt to me as samples. In many years of woodworking, I have ...d only one real glue failure, and it was neither water-...sistant nor waterproof. Your glue should be either one or the ...her because of possible use in bad weather. My only sugges-...on is to pick one out and try it. *(Continued on page 36)*

SOMETHING NEW IN STOCK LAMINATION

Unlike the laminated stock blanks described in the accompanying article, the two unusual stocks shown here were made up primarily for their unique appearance. However, chances are slight that dangerous warping could occur since the many small pieces certainly oppose each other sufficiently throughout the blank to cancel out any tendency to twist while shrinking or expanding. They are the development of the Bruns Custom Gunshop, Marion, Ohio. The patented process has not been revealed by originator Otto Bruns, beyond the statement that an average full-length blank made by him contains roughly eighteen hundred separate glued pieces of contrasting wood. Bruns makes them up of walnut and cherry or (illustrated) of walnut and maple. Price is $30.65 each. The attention-getting qualities of their zebra-stripe pattern is guaranteed!



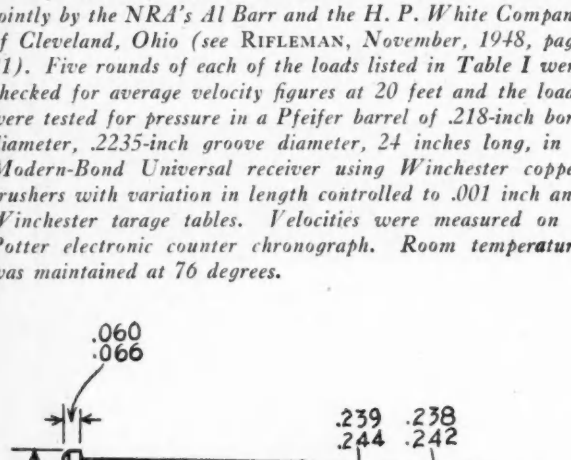
Above, a Bruns stock blank for a single-shot rifle before shaping and (right) a completed sporting rifle with a full-length stock



.22 HORNET LOADS

This article on .22 Hornet loads is the tenth of an important RIFLEMAN *series covering the more popular American rifle and pistol cartridges. The series so far has included "Loads for the '06" (*RIFLEMAN, *April, 1949, page 28), "Handgun Handloads" (May, page 32), ".257 Roberts Loads" (June, page 32), "Loads for the .270" (July, page 38), "Loads for the 8 MM." (August, page 40), "Loads for the .30-30" (September, page 29), "Loads for the .250" (October, page 17), "Loads for the .348" (November, page 25), and ".22 Hi-Power Loads" (December, page 43).*

Preparation of the material for this article was handled jointly by the NRA's Al Barr and the H. P. White Company of Cleveland, Ohio (see RIFLEMAN, *November, 1948, page 21). Five rounds of each of the loads listed in Table I were checked for average velocity figures at 20 feet and the loads were tested for pressure in a Pfeifer barrel of .218-inch bore diameter, .2235-inch groove diameter, 24 inches long, in a Modern-Bond Universal receiver using Winchester copper crushers with variation in length controlled to .001 inch and Winchester tarage tables. Velocities were measured on a Potter electronic counter chronograph. Room temperature was maintained at 76 degrees.*



Drawing shows maximum and minimum dimensions of the .22 Hornet cartridge. Figures are averages of measurements of ten commercial loads

THE .22 HORNET was one of the first modern high-velocity, flat-trajectory cartridges. The June 1930 and January 1931 issues of THE AMERICAN RIFLEMAN carried a comprehensive story of its development by the late Captain G. L. Wotkyns, with the able cooperation of Townsend Whelen, Captain G. A. Woody, A. L. Woodworth and others. In brief, Captain Wotkyns loaded the old .22 Winchester center-fire case with a 5.5-mm. Velo-Dog revolver bullet and smokeless powder. With this combination he obtained what were, for that time, phenomenal results in group size, killing power, and flatness of trajectory. The others experimented with bullets of improved contours with more ability to overcome air resistance, with the result that a cartridge offering exceptional ballistic improvements was attained.

Prior to the Hornet, the .22 WCF, the .25-20, and the .22 long rifle were the stand-bys for varmint shooting. In Europe the .22 WCF had been modernized somewhat in the early 1920's by the use of jacketed bullets and smokeless powders at a muzzle velocity of approximately 1700 feet per second. This cartridge was known as the 5.6 x 35R Vierling and, although it became exceedingly popular in Germany, was seldom encountered in this country. It is interesting to note that the name Vierling was descriptive of four-barrel combination guns which were frequently made up of two shotgun barrels, one medium velocity rifle barrel chambered for the .25-35 or .30-30, and a fourth barrel chambered for the 5.6 mm. Vierling. A comparison of the small-game cartridges of the time reveals that the Hornet was superior to any of the others in all factors. In group size it could equal the .22 long rifle at 100 yards and far surpass it at 200 yards. In flight the bullet was only about three-quarters of an inch over the line of sight at fifty yards when shooting at a range of one hundred yards. This assured a hit on the target even if the range was poorly estimated.

Winchester was the first to load the Hornet commercially. They had it available late in 1930, before any commercial gun was chambered in this caliber. The muzzle velocity of the first Hornet cartridges was 2400 feet per second. At that time many gunsmiths were chambering single-shot actions for the Hornet, but no repeating rifles were available since the cartridge was too long for actions normally chambering the .25-20 WCF. Griffin & Howe, Inc., advertised their custom-made .22 Hornet Springfield in January of 1931. Savage appears to have led the truly commercial field with the introduction of the Model 23-D in Hornet caliber in August of 1932. Winchester followed with the Model 54 in February of 1933. Still later the Savage Model 19-H and the Stevens 'Walnut Hill' single-shot rifle became available.

Today the ammunition is made by practically all U. S. manufacturers with both 45-grain open-point and 46-grain soft-point bullets. The velocity at the muzzle is 2650 feet per second and at 100 yards is 2080 feet per second. The trajectory height at midrange of 100 yards is 0.8 inch, of 200 yards, 4.0 inches, and of 300 yards, 12.5 inches.

From the handloading angle, the .22 Hornet is not as popular as it was some years ago. One of the reasons is the still-growing popularity of the Improved or so-called K-Hornet developed by Lyle Kilbourn of Whitesboro, New York some time back. When anyone intends to handload, it is generally recommended that the rifle be chambered for this K-Hornet with which velocity can be higher at safe working pressures

than is possible in the straight Hornet case. Many times rechambering from standard to 'K' variety gives better accuracy, possibly because of the K-Hornet's better case shape and consequent uniform powder-burning characteristic. With both the Hornet and K-Hornet loading data is rather simple, because there are only a few brands of powder suitable for full-power loads with jacketed bullets. The two best powders are Hercules 2400 and DuPont IMR 4227. DuPont's IMR 4198 has also been tried in the Hornet, but the case will not hold enough to give satisfactory full-power loads, even when using 50- to 55-grain bullets. Chances are, the best pressure-velocity ratio is obtained with Hercules No. 2400, especially when lighter bullets are used.

All of the various loads tested for pressure and velocity were selected because they have been used regularly in many different Hornet rifles. From Table 1 it will be noted that all loads are in quite a safe pressure level. Some of the loads may cause higher pressures than figures listed in the table when used in certain Hornet rifles, because bore and groove dimensions vary considerably for this particular caliber. Some years ago most barrels were made slightly undersize, averaging around .2225-inch groove diameter. When such barrels are used with the heavier charges and standard .224-inch bullets, pressures go up rather rapidly. It is well, therefore, to know the approximate bore and groove diameter of your rifle before selecting a full load. In fact, some of these loads will develop higher pressure even when used in regular Hornet rifles, because our pressure barrel measured .2235-inch groove diameter.

The small case capacity of the .22 Hornet serves best with the lighter bullets of 40 to 45 grains weight.

The Hornet has the reputation of being somewhat critical when it comes to developing accurate handloads. A common impression is that rifles chambered for the Hornet will change zero readily and for no accountable reason. Actually, there is little justification for this, except that Hornet loads are possibly in a rather critical velocity level from the standpoint of accuracy. Also, light bullets are used which are sensitive to wind conditions. There is nothing at all about the cartridge itself which would cause it to be any more critical than other cartridges, except perhaps that with practically no shoulder angle on the case accuracy can be affected by changes in temperature and climatic conditions. In this respect better efficiency is obtained with the K-Hornet case, and the sole reason is probably more uniform powder burning, meaning a more constant velocity or, in other words, a load that is less critical to loading conditions. Further, the velocity bracket of the K-Hornet (above 2700 feet per second) may be slightly more favorable. Certainly the improved performance of the K-Hornet would warrant its consideration from the handloading angle. It is no more difficult to load for, and tools for the K-Hornet cost no more than for the straight Hornet cartridge. Everything from the handloading angle favors the blown-out K-Hornet cartridge.

Manufacturers' Specifications for .22 Hornet

	45-Grain Soft Point	46-Grain Open Point
	Velocity, Foot Seconds	
Muzzle	2650	2650
100 Yards	2080	2090
200 Yards	1580	1600
300 Yards	1220	1240
	Striking Energy, Foot Pounds	
Muzzle	700	715
100 Yards	430	445
200 Yards	345	260
300 Yards	240	155
	Midrange Trajectory, Height, Inches	
100 Yards	0.8	0.8
200 Yards	4.0	4.0
300 Yards	12.5	12.5
	Sighting In, Iron Sights, Inches	
100 Yards	5.0 High	3.5 High
200 Yards	On Aim	On Aim
300 Yards	22.5 Low	22.5 Low

Many practical reduced loads have been developed for the .22 Hornet. One of the favorites as a squirrel load is 3 to 3.5 grains of Hercules Unique with the Ideal 43-grain gas-check bullet (No. 235438). Of all the bullets used in the .22 Hornet and similar .22 rifles, no other has given as fine accuracy as has been obtained with this particular Ideal gas-check bullet. In some rifles this same bullet has shown very practical hunting accuracy, using as much as 10 and even 10.5 grains of Hercules 2400. Usually better accuracy is obtained with gas-check bullets when loads are kept below 2000 feet per second.

Load 6 in the table is a very practical turkey load for the .22 Hornet. A similar load was developed a number of years ago by Colonel Townsend Whelen and others have indicated its fine performance where a bullet should not be too destructive. A similar load with Hercules Unique would be 4.7 grains with the 45-grain bullet.

Another good load which works in many .22 Hornet rifles with the gas-check bullet is 4.5 to 5 grains of the old DuPont No. 80 powder. The equivalent of DuPont 4759 can be used safely. Hercules Unique, however, has usually given better accuracy in this small-capacity case. With rifles rechambered for the K-Hornet, 4759 does reasonably well. Around 6 to 7 grains is a good load with this same gas-check bullet.

One of the most consistent loads in the K-Hornet case is 13.2 grains of DuPont 4227 with the 45-grain 8-S bullet. This load in the K-Hornet makes the cartridge as effective at 200 yards as the standard Hornet *(Continued on page 33)*

Table 1: Velocity and Pressures for .22 Hornet Loads

Load	Weight (grains)	Bullet Type	Bullet diameter (inch)	Seating depth (inch)	Charge (grains)	Powder Type	Lot No.	Primer	Case Make	Velocity	Pressure	Remarks
1	41 Sisk	S.P.	.223	.13	11.5	4227	15C	WRA 116	WRA	2572	35,300	Mild load
2	41 Sisk	S.P.	.223	.13	11.2	2400	....	WRA 116	WRA	2766	42,900	Accurate load
3	46 WRA	H.P.	.224	.25	10.8	4227	15C	WRA 116	WRA	2400	37,880	Moderate load
4	46 WRA	H.P.	.224	.25	11.5	4227	15C	WRA 116	WRA	2559	41,880	Accurate load
5	46 WRA	H.P.	.224	.25	10.3	2400	....	WRA 116	WRA	2552	45,340	Good load
6*	45 Sierra	S.P.	.223	.13	8.0	2400	....	WRA 116	WRA	2107	.....	Turkey load
7	46 Commercial Load									2554	37,240	

* Fired in Model 23D Savage with 25-inch barrel.

THE Rifle for Southwest

By E. B. MANN

A LOT OF THINGS enter into a man's choice of a rifle. If the man loves guns the problem is even more complicated. It's no simple problem in arithmetic, either, with a formula for solving and the one and only answer in the back of the book. It's a problem with many answers—answers dependent on the man himself; his tastes, his physical characteristics—answers dependent on the type of hunting he does; the country he hunts in, the game he hunts and the way it is hunted.

To start with, I borrowed a rifle some seasons ago—a thing I'm constitutionally against, but you couldn't buy one then, remember? It was a beautiful custom-tailored Mannlicher-stocked .270 with a Lyman Alaskan scope; as pretty a piece on a gun rack as you could find anywhere. Ten pounds of rifleman's rifle! . . . I carried it over four days of snow-covered mountains and, in sweat and toil, conceived a new respect for its owner-builder!

I carried a Model 94 .30-30 carbine the next trip; and, even after a clean instantaneous 200-yard kill on a well-grown muley, I had the sneaking feeling I was under-gunned! That's what you 'magnum' guys have done to a simple Westerner; made him skeptical of his pet rifle! . . . No, the fact is I was yearning for that 'dream' .270. The little carbine felt mighty sweet and easy to carry even as we topped out of the day's last canyon; but I was still hankering for something with a few more feet per second, something with a flatter trajectory and more 'oomph' at the long ranges this country gives you. That borrowed gun the year before had started something.

So I asked Mr. and Mrs. Winchester to send me one of their Model 70's in .270 caliber, and I started spending sleepless nights figuring what I'd do with it.

Weight was the enemy. Weight, I figured, was something I could do without a lot of! I knew all the arguments against the 'featherweights': muzzle blast, recoil, loss of accuracy, loss of velocity. I weighed them in that order. Muzzle blast? "Who's afraid," I said to me, "of noise?" Recoil? "Are you a man," sez I, "or mice?" And as to loss of accuracy, I said to myself, "It ain't necessarily so! Or, even if it is to some extent, are you looking for meat or medals? It should still shoot a lot straighter than you can hold it. And, even allowing velocity loss due to the shorter barrel, that 130-grain bullet will still be ambling along at around 3,000 feet per second or better; which is good enough!"

I had to concede one point, right at the beginning. My eyes are not good enough for iron sights at Southwestern ranges. That meant that I'd have to have a scope, and a scope meant added weight. But, weight or no weight, the condition of my eyes is a fact, not a theory, and a fact is a darned uncompromising opponent!

I picked the Leupold. Maybe some other scope is your favorite, but the Leupold suited me right down to the ground for my purpose. It's light; weighs only seven ounces. (I see that the new model weighs only 6¼ ounces.) Optically, so far as I can tell, it's as good as any scope I ever used. And it's streamlined. That adjustment sleeve with its knurled adjusting and locking rings does away with all projecting knobs and turrets, leaving a clean eye-pleasing cylinder. I like it. I ordered mine with the dot reticle, the dot sized to subtend three minutes of angle. Once I got the thing adjusted to suit my funny vision, that dot stood out as sharp and clear as anybody could want.

I chose Lehman's Featherweight (ring) scope mounts for much the same reasons. They're light (weight, two ounces), rigid, with no bumps or angles to catch in brush or on a scabbard; and they mount the scope about as low as it's possible to mount one, short of built-in turrets. (I know the arguments for high scope mounting, too; but this gun, remember, was being tailored to fit a saddle scabbard.)

I'm a stubborn cuss in most cases, but I did bow to public opinion on one point concerning this rifle. I'm not afraid of recoil myself, in a hunting weapon. It's my theory that you don't shoot enough rounds through a hunting rifle in any one day for the recoil to hurt you; and you're not conscious of recoil when you're shooting at game, anyway. But I knew very well that, if I ever got the rifle down to the poundage I wanted, the general reaction would be, "Sure, it's pretty; but I'll bet she kicks like a bay mule!" . . . So I fitted her out with a recoil cushion.

I picked the Crisler Cushion for several reasons. First, I liked the looks of that bright aluminum plate between walnut and black rubber. Second, while it's not necessarily the lightest on the market, the Crisler weighs only about 4¾ ounces trimmed down to fit this rifle. Third, I liked the live resiliency of that gum-rubber pad. But the main point was, the Crisler gives you two interchangeable cushions, one thick and one thin, increasing or decreasing stock length to make up for the difference between winter and summer clothing. This rifle will be used on out-of-season coyotes as well as in-season deer, and that difference in stock length will be handy.

The rifle came then; a pretty thing, with a much handsomer piece of walnut in the stock than I had any right to expect considering that I'd paid no premium for anything better than

'standard'. We weighed and measured it, of course, the way a tailor does a new customer. It weighed 8¼ pounds, just as specified in the catalog; and it was 45 inches long overall. We put the scope on it then and took it out for some test shooting.

Well, I expected great things of that rifle. I knew it was a fine rifle and I knew the inherent accuracy of the 130-grain 270 cartridge, and I just secretly hoped that *this* particular rifle would shoot maybe a quarter of an inch tighter groups than average, so I could brag about it. . . . But it didn't! It wouldn't put five consecutive shots on a dinner plate at a hundred yards, shooting prone with rest and using scope sights, that first day! It was as wild as a burr-tailed bronc on a frosty morning!

We swore and we sweated and we loosened the fore-end barrel screw and we tightened it again—but it was hopeless. The rifle just wouldn't group them. You've guessed the answer; the trouble was in the bedding. Maybe that chunk of walnut hadn't seasoned quite enough, or maybe it's asking a good deal of a piece of Eastern-seasoned wood to expect it to hold still out here in this high dry climate. Whatever the cause, this particular fore-end had warped. It had twisted a good sixteenth of an inch to the left, putting stresses on that barrel that its makers had never intended. The results in terms of accuracy were not good, to put it mildly. (This isn't intended as a criticism of Winchester. This was doubtless one case in many thousands. But it's a darned good object lesson for the man who thinks that a new rifle, factory sighted, is ready to be shot at live targets!)

It was a simple matter to fix it. All that was done in this case (at this point) was to remove that offending wood from the barrel groove in the fore-end, freeing the barrel. Next day, the rifle gave us 2¼-inch groups at 100 yards. That isn't top-flight target accuracy, but we figured it was good enough, considering the 'unbedded' condition of the barrel, to prove that there was nothing basically wrong with the rifle.

We went to work then on the metal. Four inches came off the front end of the barrel. (A long rifle is mighty unhandy in a saddle scabbard—or, for that matter, in a car.) That in itself disposed of several ounces of weight, because those four inches included also the front sight and its ramp. The rear sight was already discarded. We had long since decided that the scope was all the sight needed on this rifle. The time might come when I would wish I had the iron auxiliaries too—but there are times chains on a car aren't enough, too; and we don't condemn cars for that reason.

Next, gunsmith Paul Scates lathed what was left of the barrel (20 inches), cutting it in a long taper from the receiver forward. The front band disappeared under the cutter and the barrel, finished and crowned, took on the look of something designed for supersonic travel. We discussed the idea of 'slimming' the action also, but cutting down the depth of the magazine (reducing magazine capacity by one cartridge) but Harvey Rodgers, who did the work, said, "No." He was already considering the lines between stock and fore-end and he said, "You won't gain more than an ounce in weight reduction, and it would make the rifle look weak in the middle." We accepted his judgment.

Meanwhile, Rodgers had fitted a piece of walnut into the old barrel groove—a solid piece, filling the groove level with its edges the full length of the fore-end. Now, with the finished barrel for a pattern, he started the rebedding. The fore-end was shortened, too, to suit the proportions of the shorter barrel. The whole stock and fore-end was thinned in thickness and depth and was tapered; and the line from toe of stock to grip was lifted, producing a full pistol grip and improving the overall lines of the rifle. Finally, three ¾-inch

Weight: 8¼ pounds

Overall length: 45 inches

The original Model 70 Winchester in .270 caliber

Weight: 7¼ pounds including scope, mounts and cushion

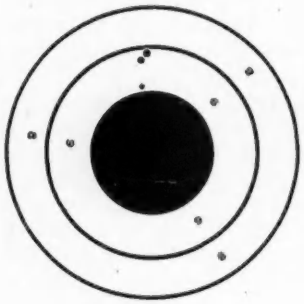
Overall length: 41 inches

The 'Featherweight'

holes were bored five inches deep from the butt forward, for further weight reduction.

One further word about stocking, and I've finished. Rebedding the barrel in the warped fore-end, then shaping the fore-end (outside) to match the new line of the barrel, threw the front sling-swivel hole about 1/16th of an inch off center. Rodgers fixed that. He inset a triangular hunk of black horn in the nose of the fore-end. Polished, that black horn caught a highlight that almost hides it in the photograph; but, on the rifle itself, it's handsome!

Of course, the proof of the pie is on the palate, and the proof of a rifle is on the target. We were mighty pleased with the looks of the rifle when we put it together finally. Viewing it with at least as little prejudice as that of a father viewing his new-born infant, we thought it was downright purty! We were pleased, too, with the success of our efforts toward weight reduction. We had aimed, hopefully, at 7½ pounds for scope and rifle. The finished product, fully assembled, including scope, mounts and butt-pad, weighs exactly 7 pounds 4 ounces



Rifle: 'Featherweight'
Range: 100 yards
Group size: 1⅜ inches
Ammunition: 130-grain Western Silvertip Super-X

—a quarter of a pound less than we had dared hope for. Subtracting the weight of the equipment added (scope, mounts and recoil cushion), we had trimmed one pound, fourteen ounces off the original weight of the rifle! . . . But the question now was, would it shoot?

The first two bullets (at 25 yards, to see whether or not we were 'on the paper') made an almost invisible double. I called the third shot low and left, which is where it was. Result: a ¾-inch group, well centered. Nobody said anything. We just moved the target back to 100 yards.

Scates did the firing here; I had buck fever! His first three-shot group (prone, with rest), centered at one o'clock two inches above point of aim and measured 15/16 inch, center to center. (We were using a four-paster sighting spot, 1¾-inch square. The three-minute dot in the scope more than covers it, at 100 yards. The ammunition was 130-grain Western Silvertip Expanding Super-X.)

I unclenched my fingers and breathed again. "I'd like it three to three and a half inches high at a hundred, Paul," I said. "That'll keep 'em within a four-inch rise or four-inch fall out to around 300 yards—which is as far as I ever intend to shoot it! Move it over one click and up one . . . and try three more."

He made the adjustments. The next two shots were right where the doctor ordered, 3½ inches above point of aim—with ⅜ inch between them, center to center! Paul said, "A little low, I think, damn it. Just a hair low, but pretty well centered." . . . Well, you look at the target. The three-shot group measures 1⅜ inches.

I shot some then, to make sure that Paul and I were seeing alike. We were. My best group was 1⅜ inches, out of three groups shot.

The wind came up then and we didn't shoot it at the longer ranges that day. Anyway, our nerves were a little frazzled! We'd put a lot of hope into that rifle. Now, to see it come through was a little exciting! Because, for a featherweight (and featherweights won't group, you remember?), those groups are—shall we say, satisfactory?

We did shoot it, later, at 200 yards and 300, and the groups were just what you'd expect from that 100-yard beginning. Our best group at 200 was 2¼ inches. The best group we got at 300 was 3⅝ inches; both, for my money, plenty good enough.

Muzzle blast? We shot the featherweight alongside a 24-inch barrel .270, a 24-inch barrel .30-'06, and a 22-inch barrel 7 mm. Maybe the featherweight has more blast, but Scates, standing with his back turned to the firing point, couldn't tell one .270 from the other.

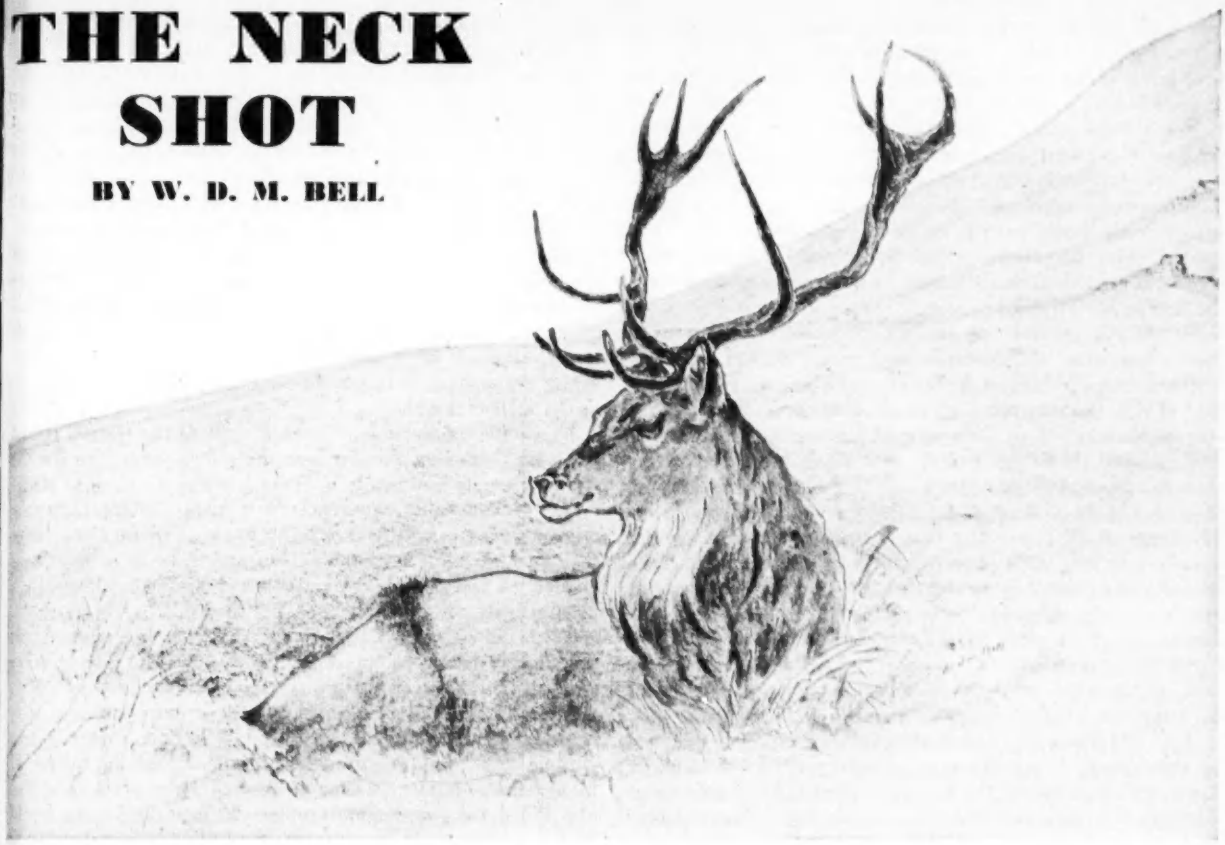
Recoil? We were firing prone over a bedroll rest, no sling, making no attempt to control the recoil. It jumped upward about as much, as nearly as we could tell, as did the Remington Model 721 24-inch barrel .30-'06 fired beside it. It 'sets back' some, of course. But I fired it (prone) five shots rapid and then five more, with nothing but a thin shirt between it and my shoulder, and I've no marks to show for it. I bruise easy, too! Whatever extra kick is there is amply absorbed by that soft-rubber recoil cushion.

Well, that's the story. I think I've got me a rifle. *The* rifle for the Southwest! Of course, a job like that is never finished. I want Scates to polish and checker the bolt handle and maybe bend it down a little. Someday, when I get a few spare dollars, Rodgers is going to do one of his super deluxe checkering jobs on the grip and fore-end. Meanwhile, I've got a lot of oil to rub into that walnut. . . .

Or maybe it will get its 'decorations' in the form of honorable scars from hard service. I hope so. I have a Nelson saddle scabbard now to fit the rifle—one of those boots with a snap-down flap that encircles the bolt handle and secures the rifle against being dragged out by brush or dropped out when a horse goes up or down one of these shut-your-eyes-and-hang-fast mountains—and there are a lot of places in New Mexico where me and that rifle could have fun! Maybe there won't be time for checkering and such. Come to think of it, I know the address of a couple of coyotes. Why wait for the season? ♦ ♦ ♦

THE NECK SHOT

BY W. D. M. BELL



LIGHT BULLETS ARE DEADLY KILLERS . . . IF YOU CAN PLACE YOUR FIRST SHOT WITH CERTAINTY. A THOUGHT-PROVOKING ARTICLE BY THE AUTHOR OF "KARAMOJO SAFARI"

THE RED DEER STAG of Scotland weighs on an average about 210 pounds, live weight. Legally it is not a game animal, there is no closed season on it, and it belongs to the owner of land who succeeds in 'reducing the animal into possession' when upon his holding.

In pursuit of 'reducing into possession'—an old legal phrase—sundry more or less up-to-date rifles have, in recent years, become prominent. The .22 Hi-Power cartridge, for example, has completely ousted the .275 and the .303 from several large forests. On one of these holdings nothing but double-barreled rifles, fitted with telescopic sights and chambered for the .22 Hi-Power cartridge, is used. Apparently the load has given complete satisfaction to a variety of shooters, experienced and inexperienced. For many years a yearly bag of 70 to 80 stags and 50 to 60 hinds was killed in this forest. The head hunter, or stalker as he is called, told me the little 70-grain bullet was a marvelous game-getter—nothing but the soft-nosed bullet was used. He should have known, as it was his job to complete any reduction job some nervous guest might have left unfinished. I don't suppose a single seriously wounded beast ever escapes throughout the seasons.

On the other hand when another very experienced hunter on the same forest was asked what rifle he would choose, as a present for himself, he said somewhat diffidently that he would like a .250-3,000.

On one of the largest forests, where the average yearly bag was 120 to 135 stags and 70 to 80 hinds, the .275 Mauser is the favorite. It is a good reliable cartridge and, of course, when properly used, is a killer. Indeed, it is reliably related of a well-known match shooter that he had never missed a stag and had never wounded one. He had his rifle sighted in at 150 yards and would take deer up to 300 yards without changing the sight setting. Over a number of years that is a reputation to be greatly envied. But what a nerve-racking business for his attendant stalker. Everything had to be just right—the shooting stance had to be right, the animal had to stand just right, the light had to be right.

By far the commonest rifle in Scotland, and still the most popular for deer shooting, is the old .256 Mannlicher or the .256 Mannlicher-Schoenauer. With its long heavy bullet, it is hard to beat for use by impatient or inexperienced shooters. It is good for end-on or raking shots, or for broadside neck or body shots. Although the velocity of the Mannlicher is nothing to shout about in these days, what velocity it has it maintains for some distance. It has almost certainly killed more deer than all the other calibers put together.

My own personal experience with the .220 Swift, the .22 Hi-Power Savage, and the .256 Mannlicher-Schoenauer is that these calibers are all good, but—like whiskies—some are better than others.

For instance, you are out in bad weather: there is a low cloud, the light is poor, and perhaps there is rain. You spy a

deer with difficulty. You make your approach and reach a point which you judge to be between 150 to 300 yards from him, but a ravine lies between you and the animal so the air-distance is hard to guess.

Now, if you carry a .256, you dare not risk a neck shot, since the trajectory of your bullet is too high—not flat enough—to cover the error your guess of the distance may contain. Therefore you must take a body shot and spoil some meat. Maybe both shoulders will be pierced and much good meat spoiled. Your best chance in such circumstances, and so armed, is to hold for a point halfway up the body and slightly behind the line of the foreleg.

Should you carry a .22 Hi-Power, or better still, a .220 Swift, and have confidence in your shooting, you may unhesitatingly go for the neck shot, by far the most satisfactory shot of all. You do not mess up good meat. The neck of a stag begins to swell in the season of his prime, just after the deer has shed the velvet, and the neck is a much larger target than one would believe. With anything like decent shooting, there should be no danger of a broken jaw. But the greatest advantage of all is the fact that if the neck muscles are hit anywhere by one of the small high-velocity soft-nosed bullets, the animal collapses instantly, can feel nothing, and remains motionless. It appears to be shock to the nervous system that does it, and shock seems to be directly the result of velocity.

All the nerve channels are closely grouped together in the neck, to the undoing of the animal and to the satisfaction of the hunter at a job properly and mercifully carried out.

The .220 Swift seems to be the cartridge expressly designed by Providence, acting through the agency of the Winchester Company's experts, for the humane killing of wild animals at distances hitherto considered risky or even impossible, provided that the neck is selected as the target. For body shots it can be used only with caution; it is not so merciful. One must avoid at all cost touching heavy bone, such as that of a foreleg. The soft-nosed 48-grain bullet will simply blow up and one is handed a nasty job and a bad conscience.

I find the Winchester bolt, with its speed lock and short striker travel, an enormous advantage. If the weight of the metal to be set in motion at trigger release could be still further reduced, it would cut down that shudder that is inseparable from the reaction of mechanism suddenly set in motion. When you are looking through a high-power telescopic sight, there is an indubitable jump of the weapon at the instant of trigger release and a deflection from the line of sight. Small, if you like, but still there and possible of elimination. In a bolt action this mass of metal is of considerable weight. The Mannlicher-Schoenauer is particularly bad in this respect. It is pertinent here to notice that if a single-shot falling-block action is put through a similar test, the jump, as shown by the scope sight, is considerably less.

But I think there is more to it than that. Consider the pressure that has to be exerted on the trigger. In a bolt action it is not safe to have the pull much less than, say, four pounds. What happens when this pressure suddenly stops, as it does when the striker is released?

As in all strokes, whether in golf, tennis, or any other hitting game, follow-through is essential. So in rifle shooting it is essential to follow through, that is, to continue to dwell on the aim an instant or two after the bullet has left. Equally so the trigger squeeze or pressure should continue smoothly on its course. But it cannot do this; it has been suddenly cut off in mid-air, as it were, and there is a considerable disturbance before the pressure is renewed once more on the abrupt ending of the trigger travel.

I have played about with rubber stops to the trigger travel but with slight success. For one thing it is difficult to fix the rubber securely and neatly. There is not space to do it properly. If you bring the rubber into firm contact with the trigger then you still have a break in the pressure line. It is a problem for the back-room boys and I hope to live long enough to see a smooth trigger travel evolved. Possibly a progressively acting spring would give results.

With the 70-grain .22 Hi-Power and its lower velocity you are slightly better equipped for body shots. In fact I have seen a .22 Hi-Power Savage lay flat a whole herd of West African buffalo. It happened during a more than usually acute famine in what had been a cannibal tribe. Meat is in a chronic state of shortage in those parts—hence the eating of human flesh—but at the time of which I write grain food had also failed the unfortunate people. In fact the hunter could with truth persuade himself that by killing a large quantity of meat he would thereby save the lives of sundry young natives in and about the villages.

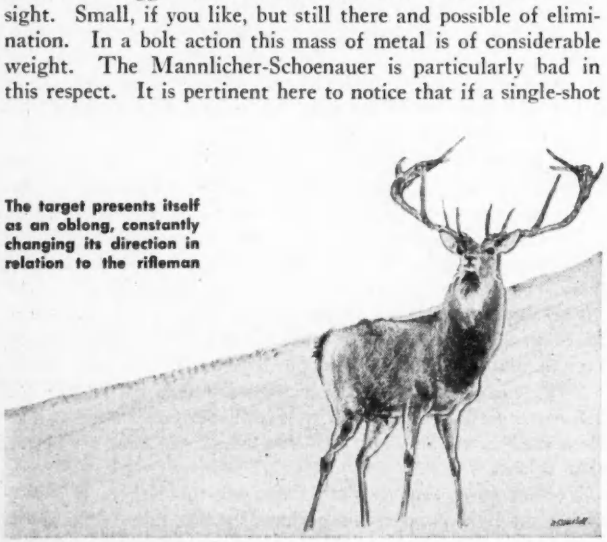
The finding of the game was, of course, entrusted to the chief medicine man, and he knew his stuff. Bright and early he might have been seen, loaded with his charms, preceding a man armed with a .22 Hi-Power Imp. Country: open elephant grass, recently burned off and now newly grown to two or three feet high; long bands of dark forest here and there cutting the horizon.

Presently they stop and appear to be watching something moving towards them. This something resolves itself into a closely bunched herd of buffalo, running determinedly towards their midday sanctuary—the forest. Their path led them straight towards the little group of motionless figures.

Presently fire was opened. Instead of dispersing in all directions the buffalo herd halted their forward movement and started ringing around, milling, goring and bellowing. And the Imp continued to talk. The herd began to dissipate, apparently into thin air; the grass was just high enough to cover most of the bodies. The last one disappeared. The Imp was silent. The shooter looked at the medicine man. The medicine man looked as if he alone had done it.

There were 23 bodies within a ring perhaps twenty-five yards across, and they were all dead. I glanced at the shooter's cartridge belt. When full it held 35 rounds; it now showed 3 rounds. If his magazine had been full—which it was—he had fired 27 shots.

Of course, what he had done was to take a tip from the old American bison hunter's technique and got them ringing and goring the wounded by using the lung shot. Only thus could that herd have been brought to bag. No doubt, in the general mix-up, several of the animals had received more than one bullet each. But what a deadly little gun—just right for the



The target presents itself as an oblong, constantly changing its direction in relation to the rifleman

job. A noisier gun might have stampeded the herd. Neck shots might have dropped them stone dead and merely alarmed the others, without enraging them with the smell of blood and without arousing that peculiar bovine lust to kill off any of its own kind that becomes wounded.

This case will hardly pass as one of humane killing, rather the contrary in fact. It is given as an example of how deadly these small-bore bullets are in the hands of a capable shot who appraises correctly the abilities of the cartridge he has at hand. If he had wanted one buffalo for his own camp, as normally would have been the case, he would have killed the fattest one in sight with a shot in the neck. The others would have dispersed and the affair would have ended unnoticed.

These high-precision, lightweight, fast-flying bullets are no good for end-on shots. They are no good for raking body shots where considerable penetration is required. Such shots simply wound and should be avoided at all cost, with one exception—the shot at a buck facing directly towards you and at such a distance as to ensure the clean, unobstructed entry of the bullet into the chest cavity. It is at best a risky shot; far better try for the neck itself. The flatness of the trajectory should obviate any risk of shattering the lower jaw. The neck, even when the animal is facing you, is a large target.

The effect of wind on light bullets is of supreme importance, especially so in these Scottish hills where they have to encounter strong gusts from maybe two or three directions during their flight from muzzle to target. But here again experience teaches one to choose the target.

Take the shot across a ravine at a stag feeding and moving slowly along. Wind may be anything from directly against to broadside to the little 48-grain pellet you propose to launch against the enemy. Speed of wind 20 to 30 miles per hour. Distance through the air about 200 yards.

It is no use juggling with the wind gauge because the wind is swirling about and you are just as likely to magnify as to correct the drift. Leave it alone, at zero.

Elevation with the .220 Swift will not bother you. The target presents itself as an oblong constantly changing its direction. Sometimes it is pointing downwards at 40 degrees, as when feeding, sometimes horizontal, as when standing, sometimes facing towards you, sometimes facing away from you.

When in the horizontal position it is obvious that the target will allow four or five inches deviation in either direction if one holds for the center of the oblong. Remember that the whole of the oblong is target to a high-velocity bullet anyway. There is no other area of similar size in any part of the body about which the same may be said.

Should the stag be lying down there is no choice in the matter; the neck is the only target that should be attempted. When in this position, all the body vitals are protected by sloping shoulder blades, folded leg bones, and what not. But what a magnificent target the neck is. A word of caution to the inexperienced though. If the stag is sleeping and facing you it will require care to place the bullet so as to avoid the point of the chin. The head is carried pretty low in slumber and in one's anxiety to avoid touching vegetation one is inclined to hold a little high.

The small bullets will not tolerate any interference with their flight, even from the slimmest of grass stems. They fly off at the most exasperating angles.

I have had one or two queer things happen while using the .220 Swift. A stag was standing in all the virility of his recently awakened sex-fever, broadside, at a subsequently measured distance of 205 yards. He was above me and roaring at another stag down below. As the neck was in almost constant movement, and as his forelegs were braced forwards, thus uncovering the heart, I selected the latter as the better target.

At the shot the stag stood motionless for a second and then fell over sideways with the legs still stiffly outstretched. I had never seen this happen before, so, when the carcass came to larder, I made a careful examination.

The 48-grain soft-nosed bullet had struck the heavy dense bone of the chest cavity wall about 2 inches low from the tip of the heart, which was untouched. In fact, the inner surface of the chest cavity was quite undisturbed. The bullet had set up nicely into a perfect mushroom, but, of course, had only penetrated about 1¼ inches. No vital had been touched and yet that stag was stone dead. By that I mean that there were none of the nerve twitchings that one gets after more normal body shots. Looking at that stag, one would have said it showed every sign of having been shot in the neck; in other words total nerve paralysis.

Another queer experience occurred when I found a good stag enjoying a rest from his labors, lying in the morning sun, with his harem of hinds scattered about between the rifle and stag. The distance was on the 200-yard mark, the light being good and the stag's neck presented sideways. It was one of the few times when everything was right. There he lay with ears cocked gazing bright-eyed at his wives lying slumbering slightly below him.

At the shot—a .220—he simply dropped his head. No other movement whatsoever. No kicking or twitching limbs; nothing. And not a move from the hinds, beyond the raising of an outstretched neck here and there. To them their lord and master continued to sleep, there on his bank. So no one moved, even to get up. Peace remained unbroken until I finally had to show myself so as to perform the gralloch, as the disembowelling is called in Scotland.

Here another question arises. Why does an animal, shot in the brain itself, twitch, and even lash about, whereas one shot in the neck completely paralyzes it and it shows no movement at all? After a brain shot, the heart may be observed to continue to beat for a considerable time.

In my elephant-hunting days I would often be actually standing on the fallen victim and would feel the thump-thump coming up through the soles of my shoes. In fact, if I did not feel these thumpings, or see the leg twitchings, I was immediately suspicious that the bullet had only stunned by passing close to the brain, and I would instantly give him another, often down between my legs.

But with the neck shot nothing of this appears to happen. The heart and nerves seem to cease to function simultaneously. Explain it who can. Meanwhile the neck shot remains the hunter's surest, safest, and kindest means of reducing into possession any of the deer tribe. ♦ ♦ ♦

NEXT MONTH: Headlining the February issue, a picture story and cover combination showing the methods used by famed New York state gunsmith Roy Vail in engraving the floorplate of a rifle. Look also for another in Al Barr's reloading series, Doc Libasci on buck fever, Harold Peterson on C of S muskets, and John Taylor's unique experience with muzzle loaders versus African elephants.

Safety barriers like these, between firing point and target, made it impossible for stray shot to get outside the range

As each match was completed and the targets scored, shot-by-shot results were posted on this elaborate board

The BUENOS AIRES matches

Continued from page 15

of the American team used .38-caliber revolvers, while members of the Swiss team used beautifully tuned-up Luger 9 mm automatic pistols. Scores were:

	Individual Score	*Team Total*
1) United States		2161
Benner	546	
Reeves	543	
Logie	540	
Hancock	532	
2) Switzerland		2160
3) Finland		2122
4) Argentina		2121
5) Brazil		2084
6) Sweden		2080

Benner won third place individually, placing behind Keller of Switzerland who had 559 against his 546.

On November 11 the all-important rapid-fire silhouette match with the .22 pistol for the Helsinki Cup was fired. Experience has shown it to be almost a certainty that the four-man team which has the least number of misses will win the match. This year's edition of the match ran true to form, Argentina winning with 239 hits out of 240 and a total score of 2219 points. Finland in second place also had one miss, while the United States in third place had a score equal to that of the winner but only 238 hits. This was a thrilling match throughout, extremely high in spectator interest, and the Argentine victory was an extremely popular one.

Benner won the individual rapid-fire championship, confusing all critics by shooting the only .22 long rifle pistol in the match as far as known. All other guns were chambered for the now almost prescribed .22 short. Benner shot the excellent score of 565 with the required 60 hits, while Harry Reeves had 564 and 60 hits. The results were:

	Individual Hits	*Individual Score*	*Team Hits*	*Team Score*
1) Argentina			239	2219
Saenz Valiente	60	560		
Cervo	60	558		
Fernandez	59	551		
Furtado	60	550		
2) Finland			239	2219
3) United States			238	2219
Benner	60	565		
Reeves	60	564		
Logie	60	554		
Hancock	58	536		
4) Switzerland			236	2176

The matches with the Argentine service rifle, an excellent modified Mauser shooting a 7.65 mm. cartridge of shorter overall length than the .30-'06, occupied the next two days. The rifles were drawn by lot for all teams at the opening of the matches, each team or individual having the opportunity to work on his rifle so long as the trigger pull met match requirements. Triggers were weighed immediately prior to each match.

With the heavy schedule of matches which the U. S. rifle team had been firing, it had not been practical to shoot the Argentine Mauser until the day before the standing match. For the match, which consisted of 50 shots standing with five men shooting and high four counting in the team score, the

same team that had shot previously was named. It finished in sixth place out of eight teams. The scores were:

	Individual Score	Team Total
1) Switzerland		1616
2) Finland		1605
3) Argentina		1597
4) Sweden		1593
5) Yugoslavia		1551
6) United States		1519
Jackson	395	
Swanson	386	
Westergaard	383	
Sandager	355	

On the following day, the Mannerheim Cup Match was fired with the Argentine service rifle, the course of fire consisting of 20 shots in each of three positions, standing, kneeling, and prone. Swanson, Sandager, Parsons, Cook, and Jackson were selected as the five-man team to fire, with all scores to count. Team and individual totals were:

	Individual Score	Team Total
1) Switzerland		2534
2) Yugoslavia		2491
4) Sweden		2486
8) United States		2290
Swanson	500	
Sandager	476	
Parsons	473	
Cook	426	
Jackson	415	

The schedule of matches during the week of firing was extremely heavy, with both rifle and pistol teams competing every day. Time did not permit entering all of the re-entry matches. However, every American had a chance to get in at least one, and all won medals. Benner added to his laurels by winning first place in both the rapid-fire silhouette match with a score of 577 and in the center-fire slow-fire pistol match with a score of 561. Harry Reeves again took second place in the latter match with a score of 559. These concluded the matches in which the United States had entries.

The running deer individual and team competition at 100 meters was won by Norway, while both divisions of the clay pigeon match with shotguns was won by Argentina. The grand aggregate, which consisted of matches with the free rifle, service rifle, big bore, smallbore, and free pistol was won by the fine Argentine shot Senor Cagnasso, who clearly showed that he was in a class by himself in this all-around event.

Finland, in winning both the 300-meter team and individual matches and the 50-meter three-position team and individual events, took the major share of the laurels in rifle shooting. In pistol shooting there was no question but that Argentina was tops in winning both the Lyon Cup for free-pistol shooting and the Helsinki Cup in the silhouette match.

On Sunday, November 13, the awards were made. President Peron was again present. After the awards were presented, shooters adjourned to the hall in which the final banquet was held and more trophies were presented. Thus officially was closed the 1949 World Championship matches.

Argentina can look with a great deal of pride at the job they did in playing host to the competing nations. The Argentine shooters impressed visitors with their sportsmanship. The American teams owe Dr. Rafael Demaria, Secretary of the Argentine Shooting Federation, their thanks and gratitude for assisting team members in clearing through customs on arrival and departure and for other efforts in their behalf. He was an outstanding example of the courteous host. The list of other Argentine officials and shooters who went out of their way to help American team members and show them friendliness would be impossible to name here. The team can only say that they brought back fond memories of many of them. ♦ ♦ ♦

ORGANIZE YOUR OWN NRA CLUB!

Why?
- ☆ *Shooting with others is more fun*
- ☆ *Free government assistance is available to NRA-chartered shooting organizations*
- ☆ *Many free NRA services, plus reduced annual NRA membership dues, are available*
- ☆ *A club organized to further good sportsmanship, firearms safety, and marksmanship training contributes a real service to a community*

Where?
- ☆ *In every community where there are ten or more shooters*
- ☆ *In every veteran's, sportsman's, fraternal, and patriotic organization*
- ☆ *In every high school, college, Boy Scout troop, church youth group, and YMCA*

How?
- ☆ *Write to Club Division, National Rifle Association, 1600 Rhode Island Avenue, Washington 6, D. C.*
- ☆ *Simply ask for information on how to organize an adult or junior shooting club*

Everything you need in forming a club will be sent to you promptly. The help and advice of the National Rifle Association will be given you at every step of the way

.22 HORNET LOADS

Continued from page 25

is at 150 yards. Another very fine load in the K-Hornet is 12.2 grains of DuPont 4227 with the 50-grain 8-S bullet. With this load zeroed on aim at 200 yards, the midway trajectory at 100 yards would be 3.12 inches and at 300 yards the impact would be approximately fourteen inches low, indicating that in the K-Hornet with a 50-grain bullet as flat, or even flatter, trajectory can be obtained than with the best loads in the standard Hornet case using 45-grain bullets.

The overall length of the .22 Hornet cartridge using a 45-grain soft-point bullet is 1.71 inches. When using some of the later spitzer-type bullets such as the Sierra and others, seat the bullet out to touch the rifling (which promotes good accuracy). The overall length may then be as much as 1.8 to 1.85 inches, depending on the individual gun. Lyle Kilbourn and others lengthen the magazine when rechambering for the K-Hornet case so as to seat the spitzer-type bullets out to touch the rifling and still permit them to feed through the magazine.

When using gas-check or lead-alloy bullets in the Hornet it is advisable to size them to .224- or .225-inch diameter. A good compromise is .2245 inch for the bullet-sizing due.

The .22 Hornet cartridge case accepts the Remington 6½, Winchester 116, or Western 6½ primers. The correct Peters size is the No. 65. Primer diameter for this cartridge is .175 inch. Maximum permissible case length is 1.403 inch. ♦ ♦ ♦

SPEAKING OF GUNS...

AND

A. O. Zischang

By JAMES E. SERVEN

THE OLD SOMERSET sportsman loved to talk about guns. He had one favorite gun story which he told over and over. When the conversation failed to give him an appropriate opening, the old gentleman, careful not to be observed, would rap the floor sharply with his cane. Then he'd quickly say, "Egad, sounded like a shot. Ah . . . speaking of guns . . ." and then on into his story.

Now that we are speaking of guns, let us especially consider guns from the old Syracuse shop of A. O. Zischang. We have for our subject some of the finest target rifles ever produced.

The Zischangs, one generation after another, were successful gunsmiths in Saxony, Germany. In 1876, young A. O. Zischang, just turned thirty, arrived in New York harbor. While unfamiliar with American customs and speech, Zischang possessed qualifications which transcended national lines; he was a craftsman.

Zischang's first employment was with the Sharps Rifle Company at Bridgeport, Connecticut. This association may have been partly responsible for Zischang's frequent use of the Sharps-Borchardt action in building his best target rifles. (It is worthy of note that, when the well-known William Luce collection of target rifles was sold, the top price was paid for a gun Zischang had built, using an engraved Borchardt action.)

From Bridgeport, Zischang went to Syracuse, New York, where he became associated with Nichols and Lefever. In 1879 he opened his own shop, doing all kinds of gunsmithing; but making a specialty of producing fine target barrels.

The list of successes with Zischang-barreled rifles is long. These barrels were used not only in America, but abroad as well. Colonel André Regaud used a Zischang when he won the French championship.

Dr. Franklin W. Mann, author of "The Bullet's Flight", was assisted by Zischang in many of his experiments. Colonel W. A. Tewes, Captain Nat Gindels, and Dr. W. G. Hudson were others of an extensive clientele which kept the Zischang shop filled with more orders than the skilled German could easily handle.

The shooting skill of Dr. Hudson and his prominence in international matches are well known. Reference to his shooting and the gun he was then using are found in a letter which I acquired recently through the kindness of Tom East, Jr., of Trinidad, Colorado. This letter, written by C. W. Rowland of Boulder, Colorado, to Tom East, Sr., in 1905 contains the following advices:

"I have shot upon the Denver range the past couple of Sundays. Went there to see and shoot with Dr. Hudson. I have become quite well acquainted from thus meeting him also from several hours of 'gun talk' now and then at Schoyen's shop. I have formed the opinion that he is a quiet, pleasant very intelligent and agreeable man and a wizard in all that pertains to explosives and fine work with firearms. As an offhand shot he is a wonder in holding, pulling and judgment of weather.

"He shoots a Zischang .38-caliber breech-loading barrel in (a) Remington Schuetzen action, loaded with 18 grains of Laflin and Rand Sharpshooter and 10 grains Cream of Wheat . . . This, to keep the hot gas of Sharpshooter from contact with butt of bullet, as it would melt it. The barrel is throated or freed to allow an easy seating of bullet in breach.

"In my estimation Dr. Hudson has the finest and most advantageous Schuetzen style of rifle possible to use with present knowledge of ballistics for the following reasons—

"First, the windage is 40 percent less with .38-caliber .308-grain bullet than .32-caliber .200 grain.

"Second, the increased size of hole cut in target figure 14 percent advantage upon German Ring and the better holder one is and the nearer center he gets the less diameter the rings are and still greater the advantage.

"Third, decrease of recoil with powder used.

"Fourth, quickness and 'get-out-of-barrel' qualities of bullet

"Fifth, no dirt in shells. Hudson's have been shot a year without cleaning, and look very clean and bright.

"He loads at home, then rests between shots at range."

Zischang preferred a swaged bullet with parallel sides

The bullets were cast, lubricated, then swaged into final shape by pressure. This swaging operation included the addition of a hollow base. Paper-patched bullets were, of course, still popular during Zischang's period of activity. Zischang's patched bullets usually were made with a separate nose section.

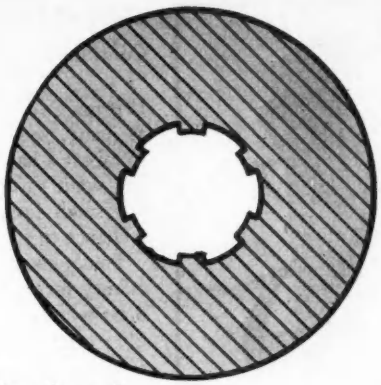
As shown in the drawing, Zischang's rifling was of the wide-groove, narrow-land type. Bore diameter of Zischang's 32-40 barrels was .315 inch, groove diameter .3215, land width .058 and groove width .112. In the particular barrel from which these figures were taken, rifling twist is right hand, one turn in 14⅞ inches.

In 1919 A. O. Zischang turned over the active management of his gunshop to his son, William O. Zischang. The old man could not stay away from his tools, however, and continued to do some work until his death on May 21, 1925. He was then 79 years old. William O. Zischang continued the gunshop until a few years ago, and is now enjoying a well-earned retirement.

Said William Zischang: "Father always had more orders than we could take care of. I remember Dr. Hudson very well. The first time I saw the doctor, we were on our way to the 'Schuetzenfest' in Glendale, back of Brooklyn, New York. This was just about the first time Dr. Hudson took up offhand shooting at two hundred yards. I found the doctor was corresponding with father about a new barrel. Later, when the United States was getting a team ready for international matches in England, the doctor had charge of this team. He placed an order for barrels, but father was so busy that he could not get them out in time. . . . Father invented many things of his own . . . such as a bullet mold permitting different lengths of bullets to be cast from the same mold, fine double-set triggers for Sharps-Borchardt actions, etc. Father was always an advocate of loading the rifle from the breech."

In that golden era of the single-shot target rifle, when shooters could draw on the skill of men like Harry Pope, George Schoyen, Axel Peterson, Adolph Niedner, and other great craftsmen, it was a significant tribute to the skill of A. O. Zischang that his work was in active demand, and that many leading riflemen considered Zischang barrels equal to the very best which could be obtained anywhere.

When A. O. Zischang laid down his tools, he closed a long record of useful service to American riflemen. It is a record that will be remembered—a job well done. ◆ ◆ ◆

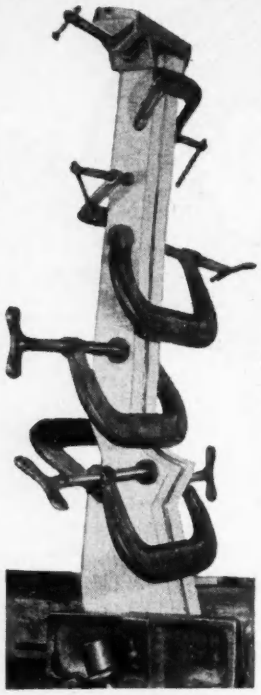


Cross-section of one of A. O. Zischang's .32-40 barrels. Drawing is by E. B. Rybolt; the data is from William K. Knepp

The prices of yesteryear will always evoke a nostalgic sigh. Here is what Dr. W. G. Hudson said of rifle selection in his book *Modern Rifle Shooting*, published in 1903:

"If the rifle sought is a Schuetzen rifle, there will be little difficulty in obtaining a good one. . . . A rifle of this character, factory made, which is capable of doing fine work in the hands of a good shot, will cost between $20.00 and $25.00. . . . If an extra fine shooting outfit is desired, for prices ranging from $25.00 to $45.00 extra, one of the special barrels made by H. M. Pope, of Chicopee Falls, Mass., or A. O. Zischang, of Syracuse, N. Y., can be fitted. But they are out of place in the hands of a beginner, who would be almost certain to ruin them."

In making his special rifles, Zischang preferred the Sharps-Borchardt action. This target rifle is fitted with a false muzzle



Use plenty of clamps during the drying period and, if possible, allow the blank to stand for at least twice the time recommended by the manufacturer. Use two clamps on wide parts

LAMINATION

Continued from page 23

If it is a cold water mix like so many, you may do well to mix it a half hour before you want to use it, so that any small lumps will have a chance to soften.

Some woods have a poor affinity for glue. To avoid disappointment, you should glue together several small samples. When the glue is dried (allow about double the manufacturer's time) break the pieces apart. A good machinist's vise may do this, or you may have to use a two-by-four joist jacked from the cellar floor to the floor beams above. Even using a sledge hammer will do. The point is to break the samples apart. A good glue joint, when split open, will not show more than about 50 percent of the glue area. The rest should show wood split out alongside the joint. These samples should be two pieces of about the same length glued together with the ends staggered about one inch. This allows you to apply the force in a sheer direction such as it receives in a gunstock. The Department of Agriculture lists beech, birch, gum, and hickory as being woods with poor gluing properties while cedar, chestnut, white pine, redwood, and spruce are among the best. Other domestic species are in between these extremes.

In the April '49 RIFLEMAN, a Mr. Lerner tells of laminating a stock with the plies in a horizontal plane. I disagree with his principle for two reasons: First, he cannot gain the benefits of a balanced swelling or shrinkage on each side of the barrel such as I picture in Figure 3. Second, he is almost sure to wind up with a 'musket-grain layout' through the pistol grip. However, realizing that his principle has merits, I have been bouncing the idea around in my mind, and have come to the conclusion that it is possible to combine both the horizontal and the vertical laminations and still have a practical idea. This could be accomplished by taking, for example, a good solid walnut blank and ripping about one inch off the top edge for the length of the barrel and receiver. This can then be built up again with three plies of a matching walnut placed side-by-side across the top of the blank. Such a stock would look like a solid one, and would be a solid one from the rear guard screw back, but the barrel and action would be bedded between faces of opposing grain. This would, in effect, be a vertically laminated blank, giving great stability in the one plane, but it is glued with a horizontal glue line to another ply (the solid stock) which should do much to insure stability in the other plane. Anyway, it's a thought. Sometime in the future when I've caught up with present orders, I'm going to try it out. ♦ ♦ ♦

HOT-SHOT .22 ON GAME

Continued from page 19

exceptional accuracy. When I had the present barrel fitted to my action I specified a rate of twist of one in fourteen inches on the theory that the quicker twist would better stabilize the long 63-grain Sisk bullet at longer ranges. It worked out fine as far as accuracy but these heavier bullets do not stand maximum velocities, at least not in my barrel, and do not penetrate nearly as well as the 55 grain.

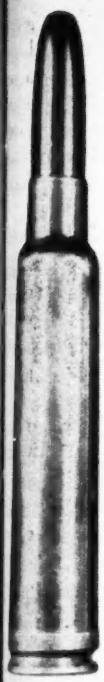
Whether I am any better off with the faster rate of twist when using the 55's is doubtful. I do feel that the accuracy is slightly better at long ranges with these; equally as good with 50-grain bullets. However, the more rapid twist increases the chamber pressures, necessitating the reduction of maximum powder charges by two grains. This may or may not cause an appreciable velocity loss. No difference in trajectory is noted.

While I am well aware that these light pellets are susceptible to wind drift it always seemed to me that the importance of this has often been over-emphasized in game shooting to justify poor marksmanship. By that I mean that every little breeze should not be considered a major obstacle to good shooting. Out here on the deserts of the Southwest there is some movement of air most of the time, but unless it is blowing hard I try to forget it and concentrate on getting off a good shot. If the wind is really whooping it up the .22-250 stays home and the .270 goes with me.

This brings us to another handicap the shooter must contend with when hunting with a .22. These light bullets do not kick up enough dust to indicate where they are hitting unless the shooting is done at close ranges and on very dry ground. Consequently, when the shooter misses he does not know how to change his hold for the next shot. This makes it very difficult to correct accurately any error in judgment of range or windage.

No, the speed-burning .22's are not all-arounders regardless of the enthusiasm they generate. When the hunting must be done in brushy country so that shots are likely to be of the snap variety, any cartridge that propels a light, fast bullet at high velocity is out of place. Under such conditions it is not always possible to place your shots in a vital area. Too, what missiles of this type will do when they come in contact with even light brush is pretty much of a gamble.

On the other hand, I do not consider these fast steppers a bunch of hot-air killers whose deadliness exists only in the imaginations of the storytellers. With the proper bullets they are extremely potent on all soft-skinned game up to and including deer. In my humble opinion a 55-grain .22 bullet zipping along at nearly 4,000 feet per second is a better combination for the taking of a 100-pound deer than, let us say, a .25-caliber 100-grain bullet or a 150-grain .30-caliber bullet on game the size of a bull elk weighing 700 pounds. ♦ ♦ ♦



WANTED: A .275 MAGNUM

By RICHARD F. SIMMONS

FOR MANY YEARS it has been known and proven among informed riflemen that the .27- or .28-caliber bullets of 160- to 180-grain weight have the highest ballistic coefficient of any bullets yet produced. When propelled by the right charge of powder, such bullets will shoot farther, flatter, and penetrate deeper than other bullets of any size or weight.

Up to the present time shooters have been fairly well satisfied in the .25-caliber field with the .257 Roberts, or at least they should be if the 'rumored' high-speed loads recently developed for this caliber make their appearance on the shelves of sporting goods stores. The .300 H & H Magnum has filled the bill as a long-range .30-caliber weapon in most respects. Whether used for target or hunting work, the .300 is a fine long-range weapon and cartridge, one that has proven supreme in accuracy and killing power. To date, however, shooters have had to be satisfied with the .270 Winchester as the only high-powered cartridge of .270 to .280 caliber, unless one has a custom-built rifle to handle a wildcat cartridge of similar caliber. Although an exceptionally good killer on deer, antelope and other game in the two to three hundred pound class, the .270 Winchester with a light 130-grain bullet leaves something to be desired on larger game at long ranges. One needs a heavier bullet of 160 to 175 or 180 grains weight to retain velocity and energy over longer ranges in order to kill well on elk, caribou, mountain sheep or goat.

Most experiments so far conducted with .270 Magnum calibers by gunsmiths as well as manufacturers have resulted in velocities only slightly higher than those of commercial .270 Winchester cartridges but with increased chamber pressures. These experiments seem to indicate clearly that the .270 caliber is about as efficient as it ever will be. In other words, the .270-caliber bullet is being pushed about as fast as it will go without increasing chamber pressure beyond safe limits—a point which indicates that the demand for a good .275 or .280 Magnum cartridge is present.

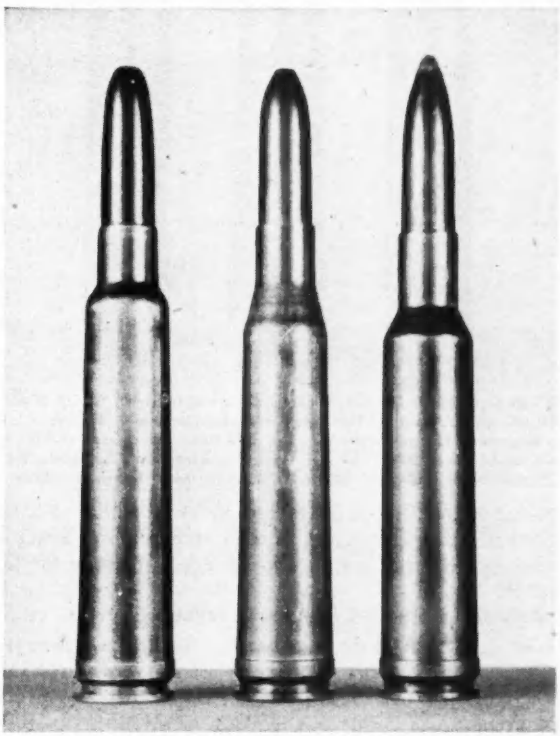
What caliber would we choose? The comparatively old but still modern design of case commonly known as the .275 H & H Magnum is my nomination. A case which has been used for a good many years by the English in their African and Indian shooting expeditions, it is a compromise between the .270 and .280 calibers. It is a proven killer still popular on the Continent. In shape of the case, shoulder angle, neck length, it is a modern belted design of heavy brass. Since the .275 H & H Magnum cartridge has been manufactured in this country in past years, it should be easy for ammunition companies to set up dies and make new cases as well as complete loads. Loaded with a modern 160-grain bullet which would be designed to expand well at all ranges, the .275 case would be easy and convenient to reload with either lighter or heavier bullets.

Let's compare the ballistics of the .275 H & H with other commercial and wildcat cases. Then the reader can decide for himself what cartridge he would choose if he were to have a rifle made for it tomorrow.

The Winchester Super Speed 7-mm. Mauser cartridge, with the soft-point 175-grain bullet, has the following ballistics:

Muzzle Velocity	*Velocity at 100 yards*	*Muzzle Energy*	*Energy at 100 yards*
2460	2220	2350	1950

The figures are good for the first 100 yards, but the 175-grain bullet would drop fast in both velocity and energy over the 200- to 300-yard range, and consequently the trajectory would not be flat over longer ranges.



High velocities and accuracy have made .27- and .28-caliber wildcats second only to .22 wildcats in popularity. Using .275 H&H Magnum cases and 160-grain bullets, .276 Carlson Magnum (right) attains velocity of 3015 feet a second and .276 Dubiel (center) attains 2800 feet a second. Why can't H&H Magnum cartridges (left) be loaded to such velocities?

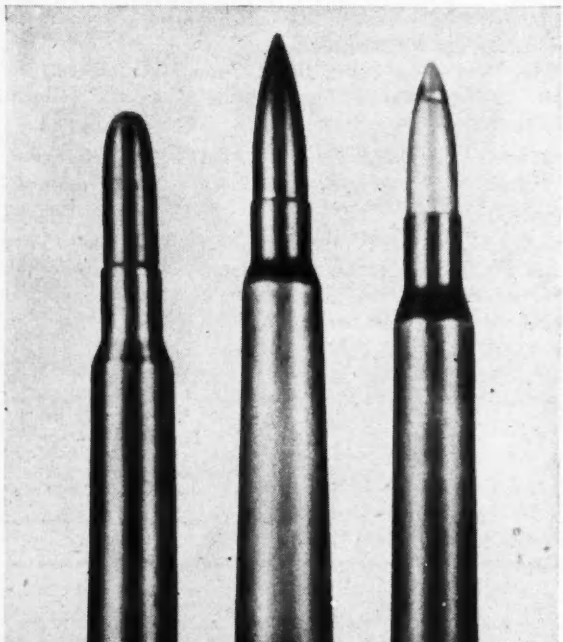
The Winchester Super Speed cartridge in .270 Winchester caliber gives the following ballistic figures:

Bullet	*Muzzle Velocity*	*Velocity at 100 yards*	*Muzzle Energy*	*Energy at 100 yards*
150 grain	2770	2490	2560	2065
130 grain	3120	2880	2810	2395

The 150-grain soft-point bullet shows less energy at 100 yards than the heavier 160-grain bullet of the .275 H & H. The figures on the 130-grain .270 bullet are very impressive on paper, but a 160-grain bullet of .275 caliber will penetrate farther even though paper energy might be less than energy of a 130-grain .270 bullet.

The .270 Winchester cartridge loaded with the 130-grain bullet is tops on deer and such and it is the most popular cartridge in use in this country according to a recent survey, but on *heavy game* it is not a substantial load.

The .280 Rimless Nitro Express (Ross) comes closest to being the ideal or 'dream' .275 or .280 Magnum cartridge



The 130-grain bullet in .270 Winchester cartridge (right) is not alone in 3000 f.s. velocity range. The 7-mm. cartridge (left) with 139-grain bullet can be loaded to equal velocity. The .280 Dubiel load (center) with 140-grain bullet gives 2900 feet per second velocity; with 150-grain bullet, 2775 f.s.; with 160-grain bullet, 2700 f.s.; with 180-grain, 2525 f.s.

(outside of the .275 H & H) because of its ability to handle bullets of different weights, as well as of slightly larger diameter, at velocities and energies as high as those of the .275 H & H.

Ballistics of the .280 Ross are as follows:

Bullet	*Muzzle Velocity*	*Muzzle Energy*	*Velocity at 100 yards*	*Energy at 100 yards*
180 grain	2525	2550	2310	2140
160 grain	2700	2592	2430	2100
150 grain	2775	2567	2506	2090
140 grain	2900	2617	2578	2065

The .275, .300 and .375 H & H belted cases are stronger and heavier than the Ross semi-rimless or semi-flanged cases, and the belted cases are safer and easy to headspace for. Furthermore, though the .280 Ross is one of the finest long-range cartridges ever produced, it is considered almost obsolete today.

The .276 Dubiel is a wildcat cartridge made up from the .275 H & H case, by lengthening the abrupt shoulder of the .275 H & H until it is ¼-inch long. For many years it has been considered one of the finest long-range big-game rifles used by experienced hunters. The bullets used in the .276 Dubiel are any that can be used in the regular 7-mm. Mauser: 139, 150, 160 and 175 grains (the 175-grain is the only bullet now loaded commercially in the 7 mm.). The .276 Dubiel gives the 175-grain bullet a velocity of 2700 to 2800 feet per second and the energy is a little higher than that of the .30-'06. Velocity with the 139-grain .276 bullet is higher than the .270 Winchester 130-grain bullet.

Ballistics for the .276 Dubiel (handloads) are as follows:

Bullet	*Muzzle Velocity*	*Muzzle Energy*	*Trajectory at 100 yards*	*Trajectory at 200 yards*
175 grain	2800	3048	.54-inch	2.3-inches
139 grain	3100	2957	.48-inch	2-inches

The .280 Dubiel wildcat shares honors with the .276 Dubiel as being one of the finest long-range big-game killing cartridges ever used by experienced riflemen. Bullets used are of .288-inch diameter, the same as those used in the Ross. They weigh 160- and 180-grains. The case used is the .300 H & H Magnum necked down to take the 180-grain bullet, and it holds as much powder as the regular .300 H & H case.

Ballistics of .280 Dubiel (handloads) are:

Bullet	*Muzzle Velocity*	*Muzzle Energy*	*Trajectory at 100 yards*	*Trajectory at 200 yards*
180-grain	2800	3135	.5-inch	2.1-inches
160-grain	3000	3200	.46-inch	2-inches

The correct name of the .275 H & H Magnum is .275 Belted Rimless Magnum Nitro Express (Holland), but it is generally shortened to .275 Rimless Magnum Nitro Express in British ballistic tables which give muzzle velocity of the cartridge as 2675 feet per second and muzzle energy at 2550 foot pounds. Fifty yards from the muzzle the velocity of the .275 bullet is 2554 and the energy is 2320. At 100 yards the remaining velocity is 2439 and the energy is 2120. Such velocity and energy are obtained with 52 grains of nitrocellulose powder and the 160-grain bullet in semi-pointed, soft-nosed, semi-pointed soft-nosed, and improved split-cap styles.

Bear in mind that the above figures are for English loadings. We have seen what can be done with the case when handloading in the .276 Dubiel with only a slight alteration in the shoulder slope. Today more abrupt shoulders are being given to cases than ever before, the reason being that modern powders give more efficient combustion with abrupt shoulders. But the shoulder of the .275 H & H Magnum case is not too abrupt to build up pressures unnecessarily fast with peak or maximum loads, yet it is not too sloping or straight in design to cause washing out at the breech end of the barrel from hot powder gases. With both modern powders and bullets loaded into the .275 belted case there is little doubt that both higher velocities and energies will be realized than was achieved formerly with older powders and a small selection of bullets.

If the .275 H & H Magnum cartridge were made available in this country shooters would be given a load as good as any made today; one that is easy to load and pleasant to shoot; is a commercial cartridge and not a wildcat; and one that with new loadings should furnish a long-range killer that will run a close second to the famed .276 and .280 Dubiels and the .280 Ross. It is a case that would require little experimental work to be put on the market *immediately*.

The .300 and .375 H & H rifles and cartridges have proved their worth in this country since they were adopted a few years back. Why not give the .275 H & H a chance? Perhaps all members of the Holland and Holland family are good killers. If they pass the test on African plains, they should be good enough for long-range shooting in the U. S. ● ●

THE SPOTTING SCOPE -- January 1950

Ray Stann, conductor of this column and NRA Director of Public Relations since 1947, ended ten years of service to the Association when he resigned on November 30 to open his own advertising office. . . . Brigadier General Sidney Hinds, Camp Perry and International shooting veteran, has given up his job as head of the American Shooting Association. Reason: poor health. . . . Much interest has been shown over the country in the Texas law on which C. B. Lister commented editorially in October. The law was written by State Representative Doyle Willis, Fort Worth Chief of Police Bob Dysart and A. C. Howerton, president of the Fort Worth Police Officers Association. It had the backing of the police departments throughout the state from the moment it was introduced in the 51st session of the Texas Legislature until it became law. Texas' new gun law had this unqualified backing because the legislation was aimed at the thugs and no one else. The thanks of shooters everywhere go to the officers of the Texas police departments and to Representative Willis.

The Carl Metzger collection of rare military and sporting firearms, ranked as one of the finest in the United States, was donated to Texas A&M College by the late collector's daughters. In all 587 pistols (including several Paterson pistols, one Walker Colt), 200 rifles were put in the school's care. The gift, valued in excess of $100,000, will be housed in the Memorial Student Center now under construction. . . . The National Guard Bureau Matches are now being organized. Guard members can get the full dope from National Guard Bulletin No. 44. There will be both team and individual competition. . . .

The rifle club of the Pittsfield (Mass.) Works General Electric Athletic Association is firing a series of postal matches with a team in Switzerland. R. T. Weisse, club member and former Swiss army sergeant, arranged the matches with his ex-hometown rifle club. This year the two clubs fired on the Swiss 50-meter target. Next year they will use the American. Arthur R. Peck, of the Pittsfield club, will be glad to correspond with any other organization interested in the project. . . . Yale graduate Walter M. Bellemore has succeeded Merton A. Robinson as ballistic engineer of the Winchester Repeating Arms Company. . . . Officers of shooting clubs on military posts can follow the lead of Master Sergant Ken Cruse, instructor of the Fort Riley Junior Rifle Club. Cruse utilizes fully the post public relations facilities with official press releases and photos on the activities of his youngsters. . . . Gun collectors who have subscribed to Roger Marsh's new magazine, "Weapons", will have to wait a while for their first copy. Roger has been hospitalized for several weeks and has had to push his first publication date back. . . . Ries Tuttle, outdoor writer for the Des Moines Register and Tribune, fed up with the inaccurate reporting of his city-side colleagues in the telling of hunting accidents, wrote a letter to the Associated Press complaining about the 'scare' stories for the sake of a headline. . . . Wally Taber, RIFLEMAN writer and outdoor editor of the Denver Post, is now on a two-month African safari. . . . While on the Dark Continent he will write a five-times-weekly column for the Post syndicate. . . . The recent meeting of the Southeast Association of Game and Fish Commissioners at Nag's Head, North Carolina, was used as the springboard to launch a movement to amend the Federal Duck Stamp Act so that all migratory game birds would be covered instead of only ducks and geese.

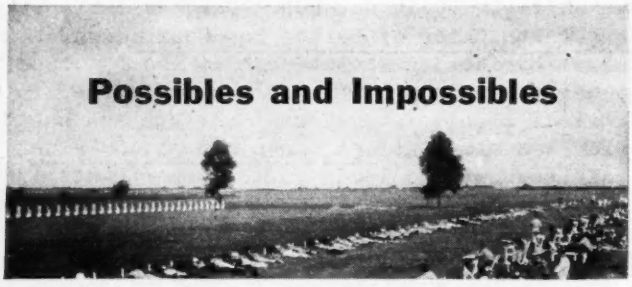
The International team returned from Buenos Aires, Argentina, with nothing but praise for their Southern hosts . . . but disappointed over Harry Reeves' bad luck. Although Frank Parsons does not mention it in his story (page 11, this issue), Harry lost out on a world pistol championship by firing on the wrong target. Harry's only solace: It happens to everyone sooner or later. It's just a shame Harry's had to be in his most important match. . . . The National Foundation for Infantile Paralysis wants us to remind you that the annual March of Dimes drive takes place the last two weeks of this month. . . . It's not too early to start planning for the Third Annual Convention of the National Rifle Association . . . the first week in October, in San Francisco, California.

Paul Cardinal

A PAPER FOR PEOPLE WHO SHOOT

Rifle Reton

VOL. 13, NO. 1 BRIDGEPO , JANU



A short time ago we received a letter from one of our friends in the Pacific Northwest telling us of the activities of the "oldest N.R.A. chartered club" in that section. This live wire outfit recently built a complete new club house, which includes an indoor range—the entire job being done by member - donated labor. From the reports we've heard, it's as good as or better than anything like it in the country.

Sparked by a president who knows the value of good publicity, this club has done much to attract would - be shooters into the fold. As an example, before their Regional shoot, arrangements were made with the leading bank and hardware store in the city for displaying the attractive prizes in their most prominent show windows. The photographs we saw of the displays were enough to make a shooter's mouth water.

Our hats off to this club—and to the enthusiasm and progressive spirit of its members.

* * *

The technicians on the Remington testing range had been knocking off some really hot consecutive 10-shot and even 50-shot groups at 100 yards—nice compact X's. Then one of them decided to give some "Palma Kleanbore" and a Model 37 the works.

The 500-shot group shown on the opposite page is the result. It took about 1½ hours, pausing two minutes after every 50 shots to cool the barrel. By a little simple division, we calculated that an average of approximately 5.5 shots were fired per minute. When we asked the technician for a comment he replied: "It's a real good group, considering it was shot in less than an hour and a half, but the group would have been closer to an inch if I had allowed a longer interval between shots. It's real good, though, considering. Don't you think so?" Our answer was a short "And how!"

* * *

Recently we received statistics from the National Rifle Association as to the number of N.R.A.-affiliated rifle clubs there are in the United States. Roughly, there are 4,000 Senior clubs, 2,000 Junior clubs, and another 1,000 clubs in camps and colleges—or approximately 7,000 rifle clubs in all.

These figures are another encouraging example of the tremendous progress that has been made during the last ten years in the fine American sport of rifle shooting.

In comparing the number of clubs in each state with the respective state population, we found there was still plenty of room for the expansion of rifle activity. However, judging from the steady increase in the number of shooters and clubs over the years, we're confident there are even better days ahead for the rifle shooting game.

* * *

Now that the indoor season is starting to roll, many clubs are thinking about those important indoor range and club house improvements that help to make shooting an enjoyable experience in comfortable and attractive surroundings.

As in years past, Remington Arms will gladly furnish literature and plans to anyone interested in building, lighting and furnishing an indoor range—as well as send suggestions for activities, and offer comments on any projected plans. Just send a letter or post card to Rifle Promotion Section, Remington Arms Company, Inc., Bridgeport 2, Conn.

500 SHOT GRO S

POPULAR ME L

SHOOTERS ACCLAIM MODEL 37

When shooters are swapping yarns you're h to hear plenty of talk about the Remington M 37. Like the California hot shot who goes on hours about that "miracle" trigger. He swears can hardly feel the trigger when he's on the fi line.

That's because it's one of the smoothest trig in the business. There's not a sign of creep or la lash, just a crisp, easy let-off.

Lots of the shooters you talk to, especially oldtimers, are particular about the way a "holds" in any position. Many of them claim th never had a gun that "fits" like the Model 37 rests snugly against your cheek and shoulder feels right in your hands too.

Every ounce, from barrel crown to butt pla designed to balance right . . . help you put e shot just where it's aimed. This all around top formance accounts for the year-after-year popul of the Remington Model 37.

AROUND OUR CLUB . . . Remote Contr

I THINK HE'S TRYING TO OUT-SMART THE BULLET THIS TIME.
MOVE MY TARGET UP AN INCH- NOW DOWN A LITTLE AND A HAI THE RIGHT. NO, TOO FAR! ETC.
HE'S PUTTING THE TARGET WHERE HE HOPES THE BULLET WILL LAND.
HEY, BUD! YOU IN REVERSE, TRY SHOOTIN "PALMA KLEAN AND YOU CAN 'EM IN THE X ON PURPOSE.
WHY DON'T YOU PUT THAT CONVERTED FLINTLOCK BACK OVER THE FIREPLACE AND GET A REMINGTON 37?
NORMLEIN

Palma Kleanbore is Reg. U. S. Pat. Off. by Remington Arms Company,

Remington News

JANUARY, 1950

First Class Reading Matter for Rifle and Pistol Shooters

WEATHER:
NO "FREEZING" ON THE FIRING LINE, PLEASE!

SHOWS ACCURACY OF

L 37 AND "PALMA KLEANBORE"

BETTER THAN TWO DAYS OF MATCH SHOOTING - - WITHOUT A 9

The above 500 shot group, shown actual size, was fired at 100 yards on the Remington testing range from machine rest, using a Remington Model 37 and "Palma Kleanbore" .22 caliber match ammunition. The entire 500 shots were fired in less than 1½ hours.

The group was shot on a testing target, but has been superimposed on a standard 100-yard target to make it easier to visualize the fine performance.

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IT'S QUICK
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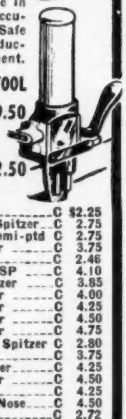

BULLETS

Sierra, 22 Hornet 40 & 45 gr. SP	C	$2.25
Sierra, Cal. 22, 45, 50 & 55 gr. Spitzer	C	2.75
Sierra, Cal. 22, 45, 50 & 55 gr. semi-ptd	C	2.75
Sierra, Cal. 25, 87 gr. HV Spitzer	C	3.75
Western, Cal. 25-20, 60 gr. OP	C	2.46
Western, Cal. 250 Savage, 87 gr. SP	C	4.10
Sierra, Cal. 25, 100 gr. HV Spitzer	C	3.85
Sierra, Cal. 25, 117 gr. HV Spitzer	C	4.00
Sierra, Cal. 30, 125 gr. HV Spitzer	C	4.25
Sierra, Cal. 30, 150 gr. HV Spitzer	C	4.50
Sierra, Cal. 30, 180 gr. HV Spitzer	C	4.75
Speer, Cal. 22, 45, 50 & 55 gr. HV Spitzer	C	2.80
Speer, Cal. 25, 60 gr. SP	C	3.75
Speer, Cal. 270, 100 gr. SP Spitzer	C	4.25
Speer, Cal. 270, 130 gr. SP Spitzer	C	4.50
Speer, Cal. 30, 110 gr. SP	C	4.25
Speer, Cal. 30, 150 SP. Round Nose	C	4.50
Western Cal. 32-20, 80 gr. OP	C	2.72
Western Cal. 32-20, 100 gr. S.P.	C	2.72
Speer, Cal. 8 mm 170 gr. SP Round Nose	C	4.50
Hornady, Cal. 30, 110 gr. Spire Point	C	4.25
Hornady, Cal. 30, 180 gr. Spire Point	C	4.75
Rem. Cal. 30/06, 180 gr. SPCL	C	4.60
Sisk, Cal. 22 Lovell, 50 gr. SP	C	2.50

PRIMERS

All makes, rifle & revolver	M	6.75

POWDERS

DuPont Nos. 4227, 4198, 3031, 4320, 4064 & 4350, lb. $1.90; 4759, 6 & 5066, ½ lb.		1.15
Hercules HiVel & 2400	lb.	2.00
Hercules Bullseye, 11 oz. can		1.60
Hercules Unique, 13 oz. can		1.80

GENERAL

Pacific Scales with Weights	Ea.	8.50
Redding Scales	Ea.	11.95
Ideal Full Length Shell Resizers, all cals.		3.00

CARTRIDGE CASES: Cal. 219 Zipper C 7.10; 257 Roberts C 7.86; 30-06, 8mm Mauser, 7.62 Russian C 8.20; 38 Spl. C 3.20.
Many other components in stock. Write for complete list. Regular DISCOUNTS TO DEALERS.
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Tells you how to reload in easy to follow instructions. Shows how to save 50 to 85% of your shooting costs.
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Gunnerman's Gold, Bigelow	$7.50
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NEW FRANZITE GRIPS
Plastic: Ivory, walnut, onyx, petrified wood, black. COLT: Woodsman, .22 Ace, .38, .45 Autos. SA OP, PPS, $3.00. Bisley, New Service, $3.50. S & W: M&P, $3.00. Hvy Duty, Outdoorsman, M1917, .357 Magnum $3.50. MISC: HD-MIL $3.00. Walther PPK $5.00. P-38 $4.50. .32 Mauser DA, .32 Walther PP, Radom 9 mm, Belg. Brng 9 mm, .32 & .380 Sauer DA $3.50. Write for others.

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B&L 60mm Spotting Scope 20X	95.00
Argus Super Spotting Scope, 20X	74.50
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Unertl Scope, 1½", 16X or 20X	90.00
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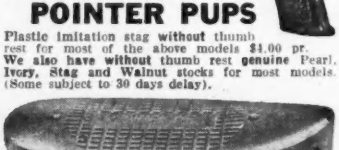

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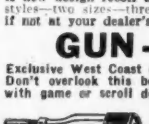

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OUTDOOR SEASON OPENS

The 1950 outdoor shooting season will again be heralded in with the two famous National Midwinter Championships in Florida. The smallbore tournament will be held in St. Petersburg, March 7-11, and "Smitty" Brown's pistol extravaganza in Tampa, March 14-18. Both tournaments have limited-advance entries and if you are planning to attend, now is the time to enter. Incidentally they are two tournaments no competitive shooter should miss.

As usual Clem Theed's "Flamingo Pistol Tournament" will again follow the bigtime Tampa show on March 20 to 23 in Coral Gables. The other big March tournament, the Calexico Desert Cavalcade International Pistol in California, this year will be held in April.

The outstanding feature of the four tournaments will be the renewal of the Benner-Reeves competition at Tampa. It will be the first of their many 1950 outdoor meetings which will lead up to the national championships, in California, late in September. Last year Reeves won at Tampa but Benner turned around and won at Coral Gables, beginning a victory string that earned him the national crown at Ft. Sheridan, Ill., last Labor Day weekend. It was Reeves in '46, Benner in '47, Reeves in '48 and Benner in '49. Tampa should be the beginning of another great shooting story and everyone should be in at the beginning.

NRA ACTIVITY REPORT

Figures compiled at last year's end give a graphic illustration of NRA strength and the success with which rifle and pistol shooting was promoted in 1949. It was a record year on all counts. Below are the recorded figures:

New senior clubs affiliated	582
New junior clubs affiliated	553
Total senior clubs on rolls	4,058
Total junior clubs on rolls	3,060
Registered rifle tournaments	394
Registered pistol tournaments	193
Classified smallbore competitors	24,421
Classified pistol competitors	8,700
New registered tournament rifle shooters	4,935
New registered tournament pistol shooters	3,373
1948-49 Gallery Leagues	212
Summer leagues	58
Junior shoulder-to-shoulder championship sectional tournaments	43
Teams	468
Individual match entries	2,436
Junior postal match teams	723
Intercollegiate rifle championships	
Sectional tournaments	12
Teams	73
Individual match entries	400
Summer camp rifle matches	
Teams	210
Individual match entries	416

CAMP INSTRUCTOR JOBS

From fifty to a hundred of the 800 summer camps affiliated with the NRA will need capable men and women as rifle instructors during July and August. The NRA Camp Instructor Placement Service tries to help camp directors secure these instructors.

Most camp seasons open about the last week in June and last for eight or nine weeks. Salaries vary considerably, based on the instructor's experience, number of campers, and other camp duties assumed. Room and board are free and the expense of transportation to and from camp is often included. Camps naturally are located in the most attractive summer areas, such as the Mountains of New England and the Lake regions of New York, Wisconsin and Minnesota. Camp programs include all sorts of outdoor sports—fishing, swimming, boating, horseback riding.

The NRA Placement Service is not an employment agency—there are no fees. Each Spring, about March first, a list of available applicants, with a summary of their qualifications, is sent to the camp directors. The directors then contact applicants of their choice and the details of employment are worked out between them.

Are you a capable smallbore rifle instructor, fairly familiar with the NRA junior program, able to get along well with youngsters? Do you have the summer months free for such employment? Then write immediately to Membership Service, National Rifle Association, 1600 Rhode Island Avenue, N.W., Washington 6, D. C., asking that a Camp Instructor Placement Service application be sent you. Do it now. All applications must be returned to NRA Headquarters not later than February 15 to be included in the listing. Women instructors for girls' camps are particularly in demand.

LEAGUE PROGRAM

This registered league program offers members of affiliated clubs a wonderful opportunity to fire for the local, state and national trophies, medals and brassards furnished by the NRA. It also gives them the chance to obtain their national classification card while firing in friendly local competition. This same classification may then be used in tournament competition. Over 1,200 teams fired in the program last year with 10,000 shooters on the teams. The course of fire and general league conditions are established by the local league officials. The maximum entry fee for any league, regardless of the number of teams, is twenty-five dollars for the entire season.

In previous years the job of reporting scores for classification purposes has been a heavy load on league secretaries. This year the process has been changed and the majority of the paper work is being done by NRA headquarters.

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NO HOLE DRILLING!
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without tools, screws or locking levers.
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Same identical KODIAK Dreamount fits 54, 70, 30S, 720, 721, 722, 14, 141, 99. Also '98, '03, '17 and numerous others. MORE FEATURES than ALL other mounts COMBINED.
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22 RUGER PISTOL
(see November "Rifleman", page 43)
caliber 22 L.R., 10-shot, automatic, 4¾" barrel, fixed sights, checkered grips, blued, weight 36 ozs.—$37.50.
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Williams Mounts are bridge-type . . . that means stronger and easier to install. Wide ring spacing reduces overhang, increases strength, protects scope, allows maximum eye relief. Low, streamlined, lightweight, they're available in quick convertible and quick detachable top and side models . . . from $12.50 to $17.50 ea.

Illustrated . . . Remington 141 with Texan Scope and Williams QC Mount.

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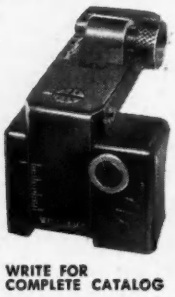

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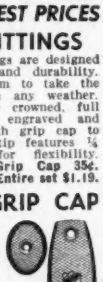

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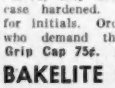

This model forearm tip was designed with two purposes in mind: 1. It can be securely fastened to the forearm without the use of glues, pastes or tools. Adjustable set screw locks tip into position so that it cannot shoot loose. 2. It can be cut down to the smallest dimensions or carved to a Schnabel if desired. It can also be affixed to the extreme end if a longer than normal forearm is desired. Optional solid or cored for lighter weight. (Specify). **Tip, either cored or solid, $1.00.**

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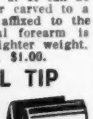

Our Mannlicher type tips are made of best quality steel, hand polished and blued. Bolt hole is smoothly countersunk and finished. Blued nut and bolt supplied with each fitting. Guaranteed. **Tips, each 50¢.**

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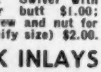

Bacite dots, ¼ inch diameter, cardinal, white or black, each 9¢. Diamonds 2 inches long x ½ inch wide, cardinal, white, or black, each 13¢. Cardinal or black diamond with white dot, white diamond with black dot, each 25¢.

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Clubs and COMPETITORS

For a top-notch and mighty busy junior shooting program we refer you to the Everett (Wash.) High School. One hundred shooters crowd the new eight point Memorial Stadium range and keep two faculty advisors and a pair of instructors well occupied. Chief instructor Lewis Watson reports classes from 3:30 till 9:30 on Mondays, 3:30 till 6:00 on Tuesdays and Wednesdays. Also a team entered in the county senior rifle league. Right now two new classes—one for each of the Junior High Schools—are getting instruction on Thursdays and Fridays. Instructor Watson also plans to try establishing a Western Washington junior league as soon as possible. A gold-plated orchid to Mr. Watson and all who have helped him build up and operate such a terrific program.

☆ ☆ ☆

How's this for community cooperation? Locale—Wisconsin Dells, Wisconsin, population 1762. Town-owned park land leased to the two local rifle clubs for twenty years at one buck a year. Bricklayers and carpenters donate time for club house and indoor range construction. American Legion Post comes through with funds. That's real help and it certainly must be well deserved.

☆ ☆ ☆

Junior shooters near Buffalo, New York please note! Two strictly junior matches—the Niagara Frontier Junior Rifle Tournaments. Dates—January 28 and February 25. Place—Amherst Central High School range at Snyder, New York. For full details contact NRA Director Donald B. Hilliker, 257 Fayette Avenue, Kenmore 17, New York.

☆ ☆ ☆

Remember the story last month about the Maryland State Junior Tournament? John Lenz and the Associated Gun Clubs of Baltimore have no intention of resting on their laurels. October 8, 1950 is already picked as the date for this year's championship tournament. To give the younger shooters some real outdoor match experience in preparation for this big event, four one-day unregistered junior matches are scheduled for June 24, July 25, August 26, and September 23. Just watch those juniors step out on October 8.

☆ ☆ ☆

Another pat on the back for Master Sergeant Ken Cruse and his Fort Riley Junior Rifle Club. Not content to just teach youngsters how to handle guns safely and well, December 5 was devoted to a business meeting with emphasis on good citizenship, club procedure and club management. Mothers and Dads were urged to attend. Qualifications were presented by Chief of Staff Colonel Charles Royce. Instructor Cruse doesn't miss a bet.

☆ ☆ ☆

Of great interest to Western pistol shooters is the range construction activity at Los Alamos, New Mexico and El Paso, Texas.

Lt. Col. John A. Carroll, Superintendent of the Atomic Energy Security Police at Los Alamos, is installing a forty target, air-operated range which will be utilized in the training of the organization and also for the conducting of large scale registered matches.

Mayor "Dan" Duke of El Paso, long time

friend of pistol shooters, has allotted sufficient money in the budget for the construction of a 50 target, air-operated range. The range, which will be one of the most picturesque in the nation, will be situated in the Dudley Rock Quarry on Franklin Mountain and will be used for the three-fold purpose of police training, local club activity and large registered tournaments.

☆ ☆ ☆

November seems to have been a slim month for juniors reaching the top rank in NRA qualification ratings. Just nine boys earned their Distinguished Rifleman credentials. The new winners of the fancy gold eagle brassard and medal include:

Martin Burns, Paterson, N. J.
William Fones, Alton, Ill.
Bruce Wilkins, Woodside, N. Y.
Robert Lindsey, Bend, Ore.
John Norton, Champaign, Ill.
Gordon Spangle, Comstock, Mich.
Nick Ferris, Fort Collins, Colo.
William Farkas, Oakland, Calif.
Alan Mossman, Hollis, N. Y.

1949-50 GALLERY SCHEDULE

A copy of the 1949-1950 Gallery Tournament Schedule showing all tournaments registered as of December 1 has just been mailed free to more than 30,000 classified shooters. Club secretaries, referees and directors have also received a copy and they will be mailed to other NRA members on request. This is another service of the NRA given to all competitors who fire in registered tournaments. From now on only state championships will be carried in the RIFLEMAN Coming Events column.

COMING EVENTS

Tournaments listed below include all state and district championships registered with the National Rifle Association as of December 1, 1949. After the publication date of the 1949-1950 Gallery League Schedule, December 15, 1949, only the state and district championships will be listed in the Coming Events columns of The Rifleman.

Tournaments requiring advance entries are indicated by (adv.). Tournaments limiting the number of entries that can be accepted are indicated by (ltd.).

Always write to the Tournament Sponsor for a program in advance of any registered tournament you plan to attend. It is your assurance that you will know all the details of the tournament conditions.

By direction of the NRA Executive Committee registered tournaments are no longer designated as Class AA, Class A, Class B, and Class C. The International, National and Regional tournaments will be so designated by title. These tournaments are controlled entirely by the NRA Headquarters. The district championships, state championships and other tournaments sponsored by local organizations, will also be properly designated by their title instead of by letter designation.

JANUARY

15 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

29 CALIFORNIA—Associated Gun Clubs of San Diego Small Bore Rifle Tournament at San Diego, California. F. Z. Tackley, Box 185, Old Town Station, San Diego, California.

FEBRUARY

19 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

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.228	70 gr.	5.00	.25	100 gr.	5.50
6 mm	90 gr.	5.25	7 mm	140 gr.	5.85
6 mm	100 gr.	5.50	.270	120 gr.	5.75
6.5 mm	120 gr.	5.75	.30	150 gr.	6.00

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CLIFF LOMAX

Cliff Lomax, G. M. 1st class, U.S.C.G. Academy, New London, Conn., says: "One week-end I had the choice of attending two pistol matches. My preference naturally was for a shoot giving Blackinton medals. And believe it or not I traveled 200 miles farther for the privilege. Clubs giving Blackinton medals are assured of a good turnout."

* * *

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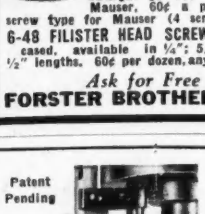

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19 TEXAS—1950 Texas Citrus Smallbore Rifle Tournament at Mercedes, Texas. John Warburton, LaFeria, Texas.

MARCH

7-11 FLORIDA—National Mid-Winter Small Bore Rifle Tournament at St. Petersburg, Florida. Neil Cocking, 780 24th Avenue, North, St. Petersburg, Florida (Adv.-Ltd.).

11-12 NEW MEXICO—New Mexico State Gallery Rifle Championship at Cimarron, New Mexico. Peter B. Payne, Box 26, Cimarron, New Mexico.

14-18 FLORIDA — National Mid-Winter Pistol Tournament at Tampa, Florida. C. A. Brown, P. O. Box 253, Tampa, Florida (Adv.-Ltd.).

19 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

20-23 FLORIDA—Flamingo Pistol Tournament at Miami, Florida. A. T. Kelley, 12 Alcantarra Avenue, Coral Gables, Florida.

25-26 WASHINGTON—Washington State Gallery Rifle Tournament at Seattle, Washington. C. M. Styer, 120 West Hudson Street, Seattle 4, Washington.

25-26 INDIANA — Indiana State Gallery Rifle Championships at Michigan City, Indiana. Edward J. Heise, 316 Warren Building, Michigan City, Indiana.

26 NEBRASKA — Nebraska State Gallery Rifle Tournament at Omaha, Nebraska. Harold H. Buis, 1312 North 35th Street, Omaha, Nebraska (Adv.).

25-26 IDAHO—Idaho State Gallery Pistol Championship at Twin Falls, Idaho. Mrs. Bert Bays, 820 Shoshone Street, East, Twin Falls, Idaho (Ltd.).

25-26 IDAHO—Idaho State Gallery Rifle Tournament at Twin Falls, Idaho. Mrs. Bert Bays, 820 Shoshone Street, East, Twin Falls, Idaho (Ltd.).

25-26 NEW HAMPSHIRE—New Hampshire State Gallery Rifle Championship at Durham, New Hampshire. Del Main, Durham, New Hampshire (Adv.).

APRIL

1-2 CALIFORNIA—Pacific Coast Small Bore Rifle Championship at Monterey Park, California. Gladys Rising, 600 North Mayo, Compton 2, California (Adv.-Ltd.).

1-2 IDAHO — Idaho State Junior Gallery Rifle Tournament at Twin Falls, Idaho. C. N. Rosa, 151 Addison, Twin Falls, Idaho.

2 COLORADO—Colorado State Gallery Rifle Championships at Camp Carson, Colorado. J. W. Woolrey, 606 Woodlawn Avenue, Canon City, Colorado (Adv.).

1-2 MONTANA — Montana State Indoor Pistol Championship at Helena, Montana. R. E. Englert, 1405 4th Avenue North, Great Falls, Montana.

16 CALIFORNIA—San Francisco Police Monthly Outdoor Pistol Tournament at San Francisco, California. Emile J. Dutil, San Francisco Police Department, San Francisco, California.

16 OHIO—Ohio State Gallery Team Matches at Columbus, Ohio. John R. Lang, 3498 Meadow Avenue, Cincinnati 11, Ohio (Adv.).

15-16 UTAH—Utah State Gallery Rifle Championship at Salt Lake City, Utah. R. K. Walker, 161 Goltz Avenue, Salt Lake City, Utah.

22-23 KANSAS—Kansas State Gallery Rifle Championship at Manhattan, Kansas. Jess E. Mosteller, 1216 Thurston Street, Manhattan, Kansas.

22-23 MONTANA—Montana State Indoor Rifle Championship at Lewistown, Montana. E. S. Schumacher, 2010 8th Avenue North, Great Falls, Montana (Ltd.).

22-23 MICHIGAN—Michigan State Gallery Rifle Championship at Dearborn, Michigan. Recreation Section, Ford Motor Co., Dearborn, Michigan.

29-30 OREGON—Oregon State Gallery Rifle Championship at Portland, Oregon. Herb T. Brown, 7159 SW 4th, Portland, Oregon.

29-30 PENNSYLVANIA—Pennsylvania State Gallery Pistol Championship at Wilkinsburg, Pennsylvania. W. L. Garrett, 118 Biddle Avenue, Pittsburgh 21, Pennsylvania.

CHANGES IN MAJOR NATIONAL RECORDS

Indoor Smallbore 50 Feet Records

		Date	Score
Individual, Metallic Sights			
5 Shots four positions	E. H. Ebdon, Jr.	1949	197
	Arthur Jackson	1948	197
Individual, Metallic Sights (Women)			
5 Shots four positions	Theresa LaLonde	1949	189
	Martha Zietlow	1947	189
Individual, Any Sights			
30 Shots prone	Charles Cater	1949	557 Cons 10's

Outdoor Smallbore Records

Four-Man Team, Any Sights			
Dewar Course	Becker Chapman Club	1949	1598-119X

Outdoor Pistol Records

Individual, Center Fire			
25 yards rapid fire	T. E. Barrier	1949	200
	J. E. Clark	1949	200
	Emmett Jones	1946	200
Individual Aggregate (Slow, Timed and Rapid and National Match)			
Center Fire	T. E. Barrier	1949	883

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IMPORTED BINOCULARS

Recently many advertisements for binoculars have appeared listing the glasses under such indefinite terms as 6x30 Military Type, 7x50, etc., with no reference to the maker, no trade name for the product, and nothing to show the country of origin. In some cases the glasses are said to be 'German engineered' or of 'German design' or 'made under military supervision'.

In general, such glasses are made in Japan. We have examined and tested a number of samples, and have found some variation in the quality of glasses, even when they are sold by the same firm. One pair of 7x50 glasses may be satisfactory, and another from the same importer may be out of alignment.

We are acquainted with two distinct varieties of 6x15 binoculars, one type selling under $40 and the other for less than $20. The more expensive glass has eccentric lens mounting rings for the purpose of providing a method of aligning the optics; samples of such glasses that we have seen, in particular one called the Mikron, have been good.

Some samples of the cheaper glass that we have tried were flimsy and hardly worth buying, but recently we have been testing a 6x15 called the Riken, sold for $19.50 plus tax by United Products Co., of Chicago, which is neat, attractive, and quite stoutly made. It gives a good clear image and is a good glass for the money.

It all boils down to the fact that there is quite a difference in Jap glasses.

We suggest, therefore, that when you buy a Jap glass you get one with an established trade name such as one of those above mentioned.—J.S.H.

WEAVER ONE-POWER SCOPE

W. R. Weaver Co., of El Paso, Texas has brought out the K1, an improved version of the one-power scope which the company has manufactured for a number of years.

A one-power scope, though offering the user no magnification, does have certain advantages over iron sights on either a rifle or shotgun. For one, instead of aligning two sights on game with one of them out of focus, the user of a one-power scope need only align one sight and the sight picture is clear in one plane. Incorrect alignment is not possible because of a misfit stock, improper positioning of the gun butt on the shoulder, or inconsistent cheeking of the comb, particularly of a shotgun. The scope would be of particular benefit to any right-handed shooter with a left master eye.

Recently I used a K1 on a model 70 while deer hunting in northern Maine. In that territory, a great part of the time vision was limited to a few feet in brush, though there are places where it was possible to get a one- or two-hundred yard shot. The scope was ideal for the country. With the K1 I had no trouble in placing a shot through brush and trees in the front shoulder of a buck at about 40-yard distance.

George R. Allen of Lyndon, Illinois, used a new K1 on his pump gun in the Grand American Handicap at Vandalia, and most of the time he was up near the top. He got two 97's and a 96 at the Grand, and that's not coasting along. Allen took the class D championship in 1948 using a Weaver one power.

Specifications of the new Weaver K1, which has an overall length of 9½ inches and universal focus and long eye relief so that it may be used on shotguns, include an increase in the field of view from 66 feet to 96 feet at 100 yards. Tube diameter of the K1 scope is one inch, weight is eight ounces, and the scope has friction-locking internal windage and elevation adjustments. It retails, with either a center dot for shotgun use or plain crosshairs for rifle, at $34.50.—E. B.

8-MM. LEAD BULLET LOADS

Several gun enthusiasts here in Brownville, Texas, noted with great interest the article in the November issue of the RIFLEMAN concerning the remodeling job on a G33-40 8-mm. Mauser and the statement that it has shot one-inch groups at 100 yards with gas-check bullets and iron sights.

Since a couple other 8-mm. reloaders here and myself have had relatively poor luck with the 8-mm. Mauser, we would greatly appreciate if you could give us some dope on how the groups were made.

I have experimented a lot with Ideal 8-mm. spitzer 174-grain gas-check bullets, sized to .324 inch, and various weights of powder, but I have been unable to get any accuracy at all except with very light loads of No. 4759. None of Phil Sharpe's loads work and I am unable to get Lightning to shoot in any gun. —ROBERT J. MURPHY, Brownsville, Texas.

Answer: The particular light 8-mm. Mauser which I used had a free-floating barrel, but you will have to determine for yourself whether your barrel is more accurate bedded tight or floating.

The bullet I used in 8 mm. was a new 173-grain Loverin-Bond gas check, No. 323876 as made by Paul G. Mansfield, New Boston, N. H. I would suggest using some of his loads or obtaining some bullets from him, as I understand the mixture is about one to ten parts lead and tin. Bullets are practically .325-inch diameter and they are seated deeply into the case necks. My best load was seventeen to eighteen grains of No. 4198. Another good load was nineteen grains of No. 4895 with four grains of Pistol Powder No. 5 mixed in. Winchester No. 115 primers are good, although I also use the No. 120. Velocity is around 1700 foot-seconds. The expander plug is .321-inch diameter, and the cases are well-chamfered and the necks cleaned on the inside, usually using a wad of steel wool on a stick. Incidentally, the combination load used by Mansfield was with the 181-grain gas-check bullet, which is the Ideal No. 321297. The other bullet I used with seventeen to eighteen grains of No. 4198 weighed 173 grains. Mr. Mansfield sized his bullets and lubricated them with a black lubricant, which might possibly be Ipco, but I am sure he would tell you.—A. H. B.

RIFLEMAN'S SCATTERGUN

The photo shows the effect on one RIFLEMAN reader of the many exhortations to get used to one gun. Deciding that the nearest thing to an all-purpose rifle was a .30-'06, I bought an M70 with K2.5 and 6X Litschert last year, and had J. L. Bates of California 'pour around it' a piece of Oregon myrtle. The gun became such a pleasure to hold on bull, chuck, and buck alike that I recently took the trusty old M97 shotgun to Joe Szczepanik of Englishtown, New Jersey, for a duplicate stock job. You can see that they should 'come up alike', and the fact that they do makes me want to recommend the stunt to other riflemen who are already used to one gun. Particularly here in the congested

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	Vert.	Horiz. Spread	Drop
R'nge	Spread		
100	.625	.437	0
200	1.	1.25	— 5.5
300	2.625	4.875	—22.750

375 I.C.L. Kodiac — 375 Standard — 170 grain Bullet

* I.C.L. Increased Capacity Load

	Vert.	Horiz. Spread	Drop
R'nge	Spread		
100	.937	1.625	0
200	4.50	2.75	— 3.50
300	4.125	5.062	—13.25
400	6.	.750	—30.50
500	6.	7.375	—63.375

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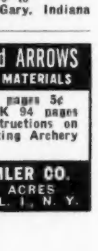

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East, where rifle shooting is now so narrowly restricted, this system provides the next thing to 'hunting with your favorite rifle'.—ED MCARDLE, Linden, New Jersey.

HIGH PRESSURE WITH .22-250

I am writing about some trouble with my .22-250 using 32 grains of 4895 powder, lot 2191, with a 115 Winchester primer behind the 63-grain Sisk bullet. A friend and I went out to the range and I fired one three-shot group, and the cases that were fired showed no evidence of high pressure either by extraction or primer signs. The cases were new, unfired, unprimed Winchester cases.

My friend then sat down at the bench and fired one shot with the same loading as my three. He then fired another and gas came back in his face but no damage resulted. We tried to open the bolt, but no go. I pulled the revamped bolt handle off trying to do it, so you can see it was really stuck. We finally got it open with a brass rod and a hammer. Both forward locking lugs were blown free of the bolt face and the case head was fused with the primer pocket swelled to .265 inch.

One suggestion was the trouble might have been caused by a bullet jacket stuck in the barrel, but I don't think so because the blow-up shot hit the target.

We had the rifle fitted with a new bolt and it is working perfectly now. I would appreciate your opinion on this.—R. J. WOODS, Phoenix, Arizona.

Answer: The fused cartridge head and the swelled primer pocket show that your trouble was due to nothing else but high pressure from some cause, though what caused your high pressure is, of course, the $64 question.

You can forget about a bullet jacket or other obstructions as the cause of the trouble. Such an obstruction will cause local damage to the barrel at the exact point where the obstruction is located. It may burst the barrel, or cause a ring or lump which can be seen by looking through the barrel; but unless the obstruction lies right against the bullet of the cartridge being fired, it will not raise the breech pressure to any great extent, or cause any damage to the breech action.

We have had a number of reports of erratic action of 4895 powder in the .22-250 and also in some of the other high intensity .22's. We might point out, also, that 4895 is not the best powder for the bullet you are using. This powder burns too fast for use with such a heavy bullet in that size case and, therefore, the slight increase in the charge from any accidental cause might produce unexpectedly high pressures. For example, if a few grains of powder got stuck in the neck of the loading funnel and then came down unexpectedly, it would be enough to cause the trouble that you experienced. We know, definitely, that such an accident can happen because it has happened to us here. Fortunately, however, the grains came out of the loading funnel in such a manner that we saw it happen and, therefore, no harm was done.

We might suggest that 4064 or No. 4320 would each be better powders for use in this cartridge with the 63-grain bullet than would 4895.—J.S.H.

COMMERCIAL SIZE .45 PRIMERS

Don't throw away that service .45 case! Take a look at the head stamp and you may find gold. Not all .45 service automatic cartridge cases have .204-inch primers. For

over a year we have been using .45 automatic cartridges in Berlin that have .210-inch primers in them.

I have found all cases stamped RA 42, 43, and 44, any WCC case, and any WRA case in .45 automatic caliber will accept perfectly the Western No. 7 or Winchester 111 primers.

Makes it mighty handy when you are hard up for a good source of brass for commercial primers and are a long way from Camp Perry and other points of resupply.—MAJOR ELIS LEA, Berlin, Germany

Answer: Standard size for the commercial primer for the .45 ACP cartridge is .210-inch diameter. The .45 ACP cartridge cases made at Frankford Arsenal have, for some reason, a smaller primer diameter, .204 inch.

During the war commercial cartridge companies producing ammunition for the government were permitted in many cases to use their standard .210 primers. Hence, the condition noted by Major Lea.—J.S.H.

STRONG TOBACCO!

I have learned that it is a mistake to carry a loose .22 caliber long rifle cartridge in the same pocket with my pipe. The

cartridge apparently found its way into the bowl of the pipe, and then the pipe was loaded with tobacco, a form of double loading that is not too good. The explosion that followed a few moments after I lighted the pipe was loud and, needless to say, unexpected. The burst cartridge case was found, but not the bullet. No one was hurt. The enclosed photograph may be interesting to your readers.—ERIC W. MANSUR, Melrose, Mass.

HUNTING BULLET DEVELOPMENT

Bulletmakers have always been confronted with the problem of designing bullets which will expand or mushroom properly for maximum killing effect. This problem of design arises for each cartidge and bullet weight. It is usually necessary to arrive at some compromise for each bullet. If the bullet is constructed so that it mushrooms properly at short range without going to pieces, it may not mushroom at longer ranges when velocity has been greatly reduced.

Two bullet manufacturers are working independently on bullets which have possibly provided the answer to the problem. Instead or trying to control expansion by lead hardness and bullet jacket design, they are eliminating bullet jacket complications by working with solid copper or high copper alloy. The bullet by Ackley has a lead filler in the nose, and bullet by Nosler has a lead filler in both the base and the nose with a thick copper partition between the two. The theory is that the nose, being constructed to mushroom at low velocity, will expand perhaps more

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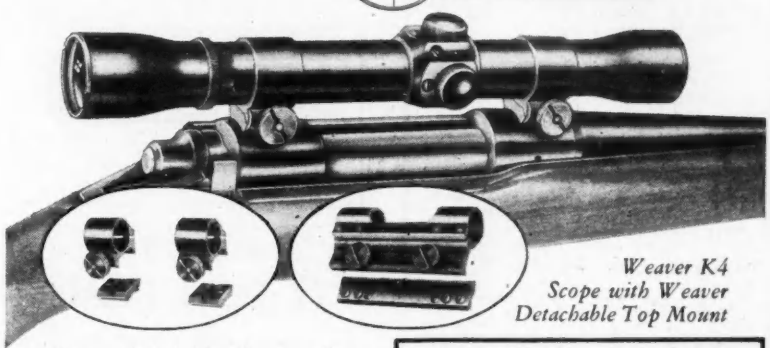

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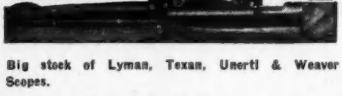

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violently at high velocity but it can expand only to the depth of the lead-filled cavity. Regardless of how violent the disruption of the front, the rear part of the bullet will remain intact and give deep penetration. We have tried these bullets in various materials and the theory works out in practice.

Both bullets gave reasonable accuracy in standard rifles. In a good hunting rifle they will shoot in about two inches at 100 yards. Accuracy at longer ranges has not been explored to our satisfaction.

The Ackley 100-grain bullet in .25 caliber measures 1.05 inches long, which may be a little long for a 14-inch twist barrel. A shorter bullet weighing about 90 grains may give better accuracy with the 14-inch twist. We are informed that Ackley is going to reduce the weight. Considering the performance of the bullet on game, the lighter weight may do the job.

On a recent deer hunt, I shot a yearling buck with the Ackley 100-grain bullet in the .257 Roberts using a load of 46 grains of No. 4350 powder. The buck was quartering towards me at 40 yards when I fired. The bullet struck him a little high in the right front shoulder and did not hit any heavy bone. The bullet came out through the ribs in the center of the left side and grazed an oak tree just enough to cut to the depth of the bark. The deer ran about 30 yards and fell. He was dead when I got to him. On butchering the deer, I found that the bullet had produced terrific effect. The entire right front shoulder was bloodshot, the lung was completely disrupted, and the intestines messed up considerably. The exit hole on the left side through the ribs was small but the meat was bloodshot for a radius of about 2½ inches around the hole.

The Nosler Partition Jacket bullets are on the market now in .30 caliber in 180 and 150 grain. The bullets, which are expensive to make, sell for $10.00 per 100.

Ackley is experimenting with the .25 caliber and .228 caliber but has not set any price for his bullet as yet.—E. B.

EFFECT OF HEAT ON AMMUNITION

Recently I moved from the East Coast and transported a shotgun and ammunition in a motor vehicle. The weather was very hot and the gun, stored on rear shelf of a sedan just below the rear window, was almost too hot to handle. Upon finding this condition I opened the trunk of the car and found that the canvas bag with shotshells was quite warm, also. Examination of the shells showed they were very shiny, like the wax was sweating out of the paper. They were not sticky but hot and sort of oily. Will this damage the ammunition? I understand most ammunition manufacturers claim their products are protected against climatic changes. Would that include storing in the back of a car trunk where it gets quite hot.—S/Sgt. JAMES J. HIGGINS, Omaha, Nebraska.

Answer: There is nothing the maker of ammunition can do to protect it from deterioration when subjected to the kind of heat that one finds in the closed trunk of a sedan car during summer weather in the middle part of the United States.

By all means, don't subject your ammunition to any such treatment. Heat may dry out the powder and raise pressure noticeably. Moreover, it could greatly accelerate any deterioration of the powder or primer that might not occur otherwise for a great many years.—J. S. H.

NEW PRODUCTS

Dummy shotgun cartridge with a composition center representing the primer permits snapping the gun without injuring the firing pin. Frequent snapping or dry firing is hard on many shotguns and may result in a broken firing pin. The composition center which takes the firing pin blow is replaceable in the dummy cartridge. Called the Neomatic Snap Cap, it is sold by the Manhattan Gun Shop, 200 East 20th St., New York 3, New York, for $3.50 per pair.

Scope mount C-clamps with extensions fitting into the receiver in place of the bolt to hold bridge or side mounts for drilling are being marketed by Smith Tools, 1615 Eighth Street, Milwaukee, Oregon. The clamps fit most bolt-action rifles and make very handy tools. The sets are sold for $7.50, collect.

Folding target frame for practice and sighting-in is designed for the convenience of carrying in a car trunk. Folded, it makes a package 34 x 16½ x 3 inches and is light to carry (11¾ pounds). It unfolds into a standard smallbore target frame size five feet 1½ inches high. The frame is constructed of thin lightweight tubing which will absorb a few wild shots, but face boards can be had which are armoured along the side with hard steel one inch wide. The exceptionally well-made frame is convenient. It does not, however, allow for a backing target and could not be used in registered medium-range competition. The only drawback to it as a convenient practice frame is that it sells for about $20.00. The maker is Mr. Charles Webster, 1222 South State Ave., Freeport, Illinois.

Little's 2½X Telescopic Sight is available from Dillon's Gun Shop, 4798 W. 35 Street, Cleveland 9, Ohio, with a windage and elevation turret that looks a trifle bulky on the ¾ inch diameter of the tube.

The manufacturer's specifications for the scope are: Power—2½X, field of view—41 feet at 100 yards, ¾ minute click adjustments for windage and elevation, hard coated lenses, length—10½ inches, weight—seven ounces, eye relief—3½ inches to 6 inches, tube diameter—¾ inch, eyepiece diameter—one inch, exit pupil diameter—.350 inch. The scope, designed to take the recoil of high-powered rifles, retails for $22.50.

Revolver sights for all Colt Officer's Model Target revolvers, except the newest version which is factory fitted with ramp front sight and target master rear sight, give positive windage and elevation adjustments without clicks. The manufacturers, A-H Gun Service, 820 Main Street, Hackensack, New Jersey, believe that clicks are usually not fine enough to permit bringing the sights exactly on to the point.

Simple sling keeper, made of tough neoprene in the form of a double wedge with projections for holding it on the sling, is being sold by Herbert L. Gebler, 8413 Dixon Ave., Silver Spring, Maryland, for $1.00. The keeper is easily installed without unfastening the sling and does an excellent job. We have used one of these keepers and find it very practical in its simplicity.

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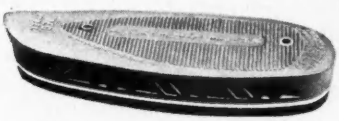

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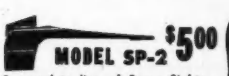

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notch of semibuckhorn-type and leaving the issue peep sight for use when desired. The easily installed replacement is sold for $2.50 by the Turner Engineering Company, 521 Richmond Street, Rockwell City, Iowa.

Stock inletting screws being sold by George Brothers, 966 Bates Street, Reno, Nevada, are well made and are furnished with a center punch which fits into guard screw holes in the metal to spot the exact location of holes in the stock. The screws are sold for popular bolt-action rifles at fifty cents each.

GUNSMITH TRADE DOPE

Terhaar Gun Works, 3108 Main Street, Jacksonville 6, Florida, is now accepting orders for first-class custom-built actions such as the one referred to on page 19, THE AMERICAN RIFLEMAN, October 1949. Mr. Terhaar will also supply custom barrels and stocks for complete rifles built on the action. The rifles will be available with custom-built three-leaf folding open sight and special ventilated rib ramps which we have seen used and feel free to recommend.

Nicholas L. Papernek, 172 Fetter Ave., Trenton, New Jersey, a promising young gunsmith, died of burns suffered in an explosion of a boiler feed water tank on August 4, 1949. Anyone who may have sent work to Mr. Papernek before the unfortunate accident either may have the job completed in accordance with the original agreement or returned by sending instructions to Al Marciante, 1216 Princeton Ave., Trenton, N. J., or George Schielke, Route 2, Trenton. These well-known gunsmiths have generously offered to complete any work contracted for by Mr. Papernek.

Bob Winger, 719 Broad Street, Montoursville, Pennsylvania, who does excellent gunstocking work, has now set up a machine for inletting walnut blocks from which finished revolver grips can be made. Grips are available for most popular handgun models. Only final inletting is necessary on the inside, and then the grips can be shaped to anyone's ideas on the outside. We found the blocks very convenient when fitting a pair of thick revolver grips on a .44 Special S&W revolver to absorb the recoil of heavy loads. Of good close-grained wood, the grips come complete with attaching screw and eschutcheons at $1.75 or $3.00 when final finished on the inside for individual handguns.

Sizer-Anderson Gun Shop is the new name of the former Sizer Gun Shop of 3727 S. 'G' Street, Tacoma 7, Washington. The reason for the change is that Mr. E. B. (Cap) Sizer is retiring from the business at the age of 72, after 40 years of gunsmithing. He is turning his share of the business over to Mr. Robert B. Anderson, who, with Mr. Robert B. Sizer, will continue the fine custom gunsmithing, gun building, and military conversions that the firm has specialized in during recent years.

Lyle Batchelder & Co., Lancaster, New Hampshire, is an outfit which specializes in stock finishing work and markets several finishes.

Stock finishing and refinishing is done by

the company at $8.50 for a standard finish and $10.00 for the deluxe finish. Shaping the stock on the outside (no inletting) is $3.50 extra.

The Batchelder stock finishes, which come in four types, can be recommended. No. 1 is for use on open-grain wood, No. 2 on hard-grain wood, No. 3 for wood like Oregon myrtle and maple, and No. 4 is for general use. A stock we saw on which No. 4 had been applied was nicely finished, showing all the grain in the wood.

United Products Co., 7941 S. Halsted, Chicago 20, Illinois, importers of all types of Japanese binoculars, also handles B&L glasses of current production and are distributors for other well-known brands such as Sard, Universal, Wollensak, Hensoldt, Leitz, and Carl Zeiss. The firm carries a large stock of all makes, and every glass is sold on a money-back guarantee with a twenty-day trial period.

BOOK REVIEWS

THE RIFLE BOOK

By Jack O'Connor

Jack O'Connor, well known outdoor writer and present arms and ammunition editor for *Outdoor Life* magazine, has written a book which might be classed as a sequel to Phil Sharpe's *The Rifle in America*, with the added advantage of the author bringing the reader up to date regarding the latest developments in the sporting gun and ammunition game. Those chapters discussing rifle accuracy, varmint cartridges, the sighting-in of a sporting rifle, and wildcat cartridges, are particularly well written.

However, we will have to admit that the writer permitted some errors to creep in and that some material is of questionable authenticity. The alert reader, in scanning the sixty-four pages of excellent illustrations which precede the text, will note that one rifle which is obviously a Model 98 Mauser is labeled as being a Remington product. Another illustration portraying a Remington Model 30 rifle gives the credit to Winchester. These mistakes do manage to creep in, however, despite the most careful proofreading and editing.

Chapter IV entitled "Bolt Actions Analyzed", contains some good dope, but the section discussing the Model 1903 Springfield is disappointing because of its incompleteness. Specifically, no mention whatsoever is made of those Model 1903 rifles produced at the Rock Island Arsenal. In view of the great number of Model 1903 rifles which have been sold to sportsmen in this country through the office of the Director of Civilian Marksmanship, we feel that O'Connor missed the boat in not going into greater detail regarding its history and other technical aspects.

In this same chapter, the section devoted to the U.S. rifle model of 1917, or Enfield as it is more commonly known, contains some questionable data regarding the bore and groove dimensions of World War I barrels. According to O'Connor, the bore and groove diameters of these barrels were .303 inch and .311 inch. Official Government records prove, however, that the original barrel specifications for the British pattern 14 rifle were changed so that the barrels for the U.S.

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8x57 Mauser, 124, 159 & 196 gr. softpoint, per 20	3.30
8x57JR Rimmed Mauser, 196 gr. softpoint, per 20	4.50
8x60 Mauser, 196 gr. softpoint, per 20	4.50
9.3x57 Mauser, 285 gr. softpoint, per 20	4.50
9.3x62 Mauser, 285 gr. softpoint, per 20	4.50
9.3x72R Rimmed Mauser, 201 gr. softpoint, per 20	6.80
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8mm Mauser 159 gr. softpoint	4.50
8mm Mauser 196 gr. softpoint	4.50
9mm Luger 116 gr. full patch	2.95
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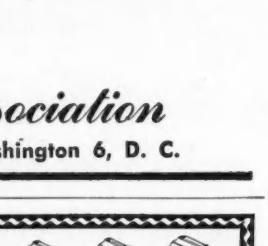

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rifle model of 1917 were bored to a true .30 caliber with the grooves having a depth of .005 inch.

Our stressing of such small errors or omissions probably borders on the picayunish since this is actually an extremely well-written volume containing a wealth of practical information.—M. D. W.

(Published by Alfred A. Knopf, New York, N. Y. 332 pages, illustrated and indexed. Available through NRA book service. Price $5.95.)

CUSTOM BUILT RIFLES

By Dick Simmons

Dick Simmons, author of *Wildcat Cartridges,* writes this book at an opportune time because the postwar period has witnessed an increase in the demand for custom-made rifles.

We believe the seven concise chapters devoted to such subjects as barrels, engraving on firearms, rifle actions for conversion, plus a chapter devoted to the preparation of an order blank, are worth the cost of the book alone. Many fine illustrations of top-flight custom gun work are included to supplement the text, and to further assist the reader Simmons has included an appendix listing the names and addresses of the individuals and establishments mentioned within the volume.—M. D. W.

(Published by Stackpole & Heck, Inc., New York, N. Y., 1949. 184 pages, price $3.85. Available through NRA Book Service.)

SUPPLEMENT OF AMERICAN GUN MAKERS

By Col. Arcadi Gluckman

By publishing his *Supplement of American Gun Makers,* Col. Gluckman has once more put arms students in his debt. Its 1200 entries represent the results of further research in the nine years that have elapsed since the appearance of *American Gun Makers.* The majority of the listings are new names, but a considerable number previously listed in *American Gun Makers* are included to present additional information.

It should be pointed out that Col. Gluckman confines his attention strictly to gunmakers or manufacturers. Blademakers, arms inspectors, and even inventors of firearms are not listed. In this special field of American gunsmakers from colonial times to the present, *American Gun Makers* and the new *Supplement* now constitute the most complete and reliable directory in print.—HAROLD L. PETERSON.

(Published by Otto Ulbrich Co., Inc., Buffalo, N. Y. 66 pages, paper bound. Price, $2.00.)

THE JAPANESE SWORD

By Irami Hakusui

"Nippon-to" (the Japanese Sword) was written to answer the countless questions of the hundreds of Allied military personnel who obtained Japanese swords.

The text of the book is clearly printed in English, with profuse illustrations in line and half-tone and a folding map showing all the areas of manufacture in Japan.

The author, eminently equipped to write this long needed work, has been president of the Japanese Sword Research Society (Hakusui Association) for twenty years.

(Published in Tokyo. Available through Ray Riling, 6844 Gorsten Street, Philadelphia 19, Penn. Price, $6.00.)

THE ARMS CHEST

GENERAL REQUIREMENTS APPLICABLE TO CLASSIFIED ADVERTISING

1. Rate: 25 cents per word including name and address—minimum charge $3.00. Advertisements *must be accompanied by remittance*, made payable to "National Rifle Association"—1600 Rhode Island Ave., Washington 6, D. C. *Insertion will not be made until payment is received.*

2. Closing Date: All advertisements must be received with advance payment by not later than the 1st of the month preceding date of issue. (Example: February 1st for the March issue. Ads received after February 1st and not later than March 1st will be inserted in the April issue.)

3. Who May Advertise: Any individual or firm whose advertisements and methods of doing business meet our requirements may advertise their goods or services in the ARMS CHEST.

4. All Orders Subject to These Conditions: We reserve the right to edit all copy to conform with our standards and to reject or discontinue any advertisement which we consider undesirable.

5. Transactions Based on Good Faith: ARMS CHEST transactions are based on good faith and mutual satisfaction. Deliberate misrepresentation, disregard of usual business ethics, or the attempt to circumvent these general requirements, will result in refusal of further advertising and might result in disbarment from the NRA, in the case of members.

6. Blind Ads Not Acceptable: Blind ads, with box numbers *only*, will not be accepted. Give your COMPLETE name and address, to insure prompt delivery of all mail or telegraph replies.

7. How to Count Numerals, Etc.: Groups of figures are counted as one word (example: .30-30. 250-3000. $150.00. $1.50). Abbreviations consisting of initials or single characters are counted as one word (example: W. H. Smith; H. B., meaning heavy barrel; W. H. and H. B. are one word.) Hyphenated words are counted as two words (example: 20-gauge, pearl-handled, no-slip).

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9. Firearms for Sale or Trade Should Be Properly Described: We urgently recommend that the *condition* of every gun (including essential parts) advertised for sale or trade, be clearly indicated in accordance with the following *NRA standard descriptions*: PERFECT—meaning factory condition; EXCELLENT—meaning new condition, implying negligible amount of use; VERY GOOD—meaning practically new condition; implying little use, with no appreciable bore wear and only minor surface scratches or wear; GOOD—meaning moderate use with some finish worn off, only moderate bore wear, with no pits and nothing worse than a little roughness in the bore; FAIR—meaning no parts missing necessary to use of gun, reasonable wear inside and out, nothing worse than minor pits in steel or stock, gun sufficiently accurate for hunting. POOR—meaning marred appearance and pitted or badly worn bore.

We further recommend that when price lists or catalogs are offered, the *condition* of every weapon or item so listed be properly described in accordance with these NRA standards.

WARNING TO PURCHASERS: The National Rifle Association *will accept no responsibility whatever* for *any* unsatisfactory transactions involving guns or other items which have not been described in accordance with the foregoing NRA standards. It is therefore important for purchasers to *insist* that sellers give full and complete descriptions of all items in accordance with these standards—*before* any such transactions are consummated.

10. Privilege of Examination: Requesting shipment by express C. O. D., *with examination privileges* will permit the purchaser to inspect the merchandise *in local express office* and authorizes the express company to return unsatisfactory merchandise at shipper's expense.

11. The National Firearms Act forbids the sale of the following: (*a.*) Full automatic machine guns. (*b.*) Rifles and shotguns with barrels less than 18 inches in length or 16 inches in the case of a weapon of .22 or smaller caliber. (*c.*) Handguns such as the Mauser or Luger automatic pistols, when such weapons are equipped with detachable butt stocks, except that all of the above may be sold by a Federal licensed dealer who has paid the special tax required by Section 3260, Internal Revenue Code. NOTE:—"Barrel length", as it applies to the above, is determined by the insertion of a cleaning rod from the muzzle until it comes to rest against the face of the closed breech.

In addition, the NRA has adopted a policy of not accepting advertisements covering small *pocket* pistols or revolvers of less than .38 caliber, or with barrel lengths of 2 inches or less, which have no practical value as target, police or military weapons.

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CROW CALLING PHONOGRAPH RECORDS of calls used in winning National Crow Shooting championship. Basic calls and instruction for use anywhere, anytime. $5.00 each. Bert Popowski, Aberdeen, South Dakota.

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First-of-the-year inventory is a sensible custom for every sound business institution — and an equally good idea for most individuals!

So we suggest that you make a thorough check-up on *all* your shooting and hunting equipment, to determine what you no longer need, or what items should be replaced.

All excess equipment can be quickly sold thru an ad in these columns—and whatever new items you need can be picked up here at substantial savings.

▲ ▲ ▲

"Copy" for the March issue must reach us not later than February 1st. See above for full instructions.

NRA Items

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10-Kt gold button. Actual size. Price $3.50, including federal tax. Also Life Member felt brassard 50¢. Send $4.00 for both. Sold to Life Members only.

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New official plastic plug scorer with 1¼" built-in magnifier. Insures accurate, easy scoring. Specify caliber .22, .38 or .45. $2.00 each.

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New, gold-filled lapel button. Price includes Federal Tax. $1.50. Also annual member felt brassard, 50¢ — Send $2.00 for both.

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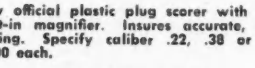

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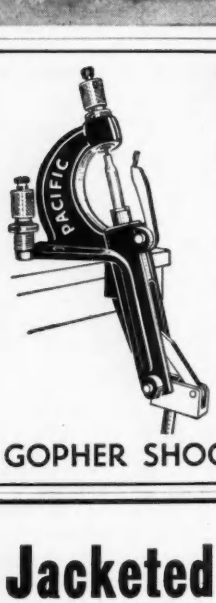

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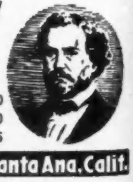

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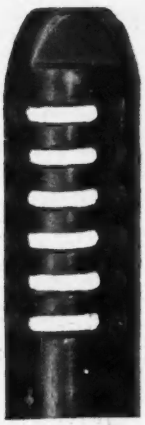

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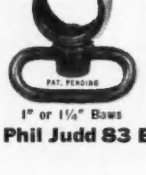

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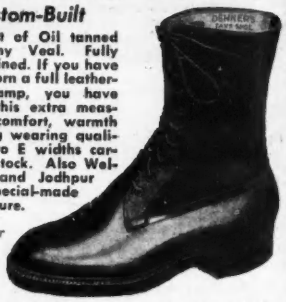

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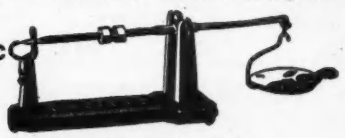

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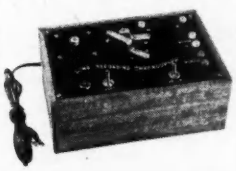

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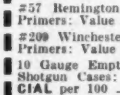

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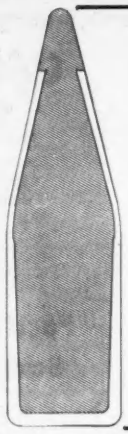

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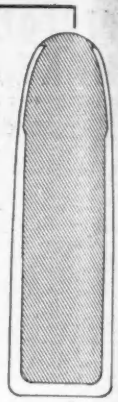

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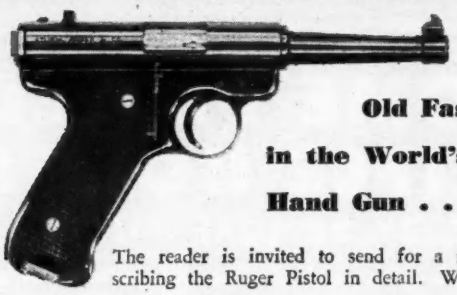

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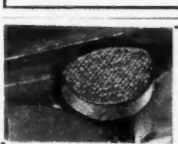

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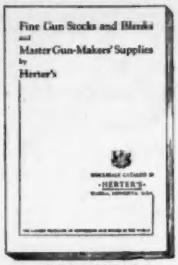

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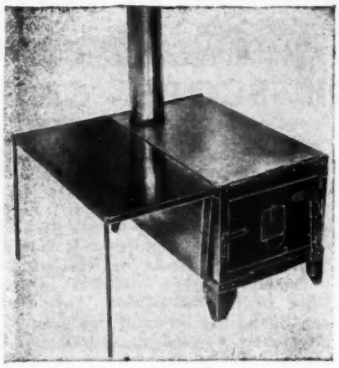

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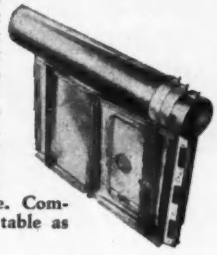

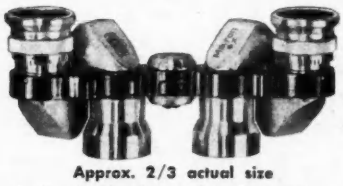

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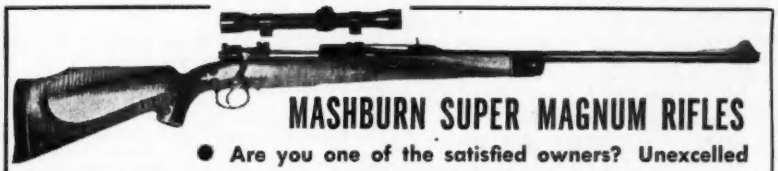

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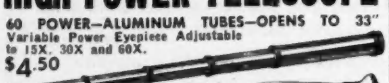

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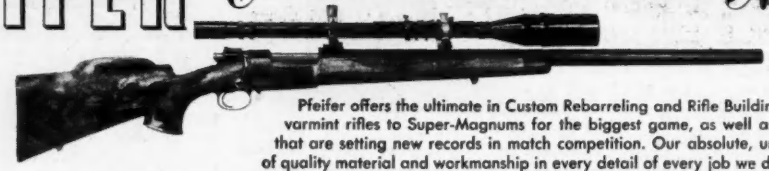

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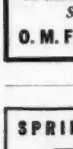

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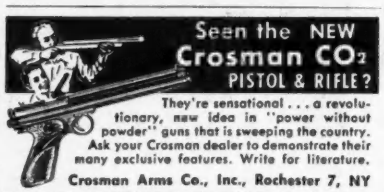

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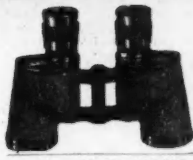

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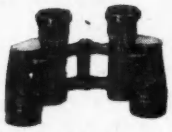

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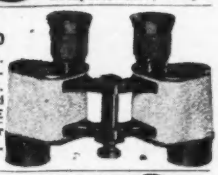

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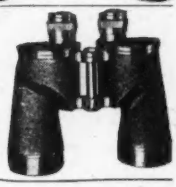

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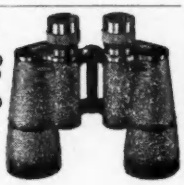

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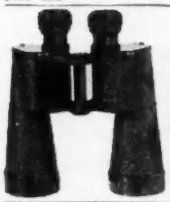

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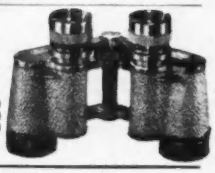

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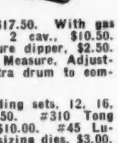

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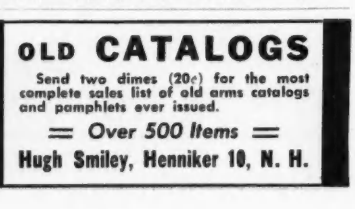

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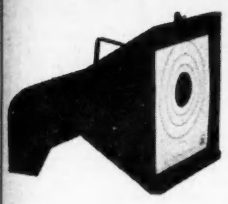

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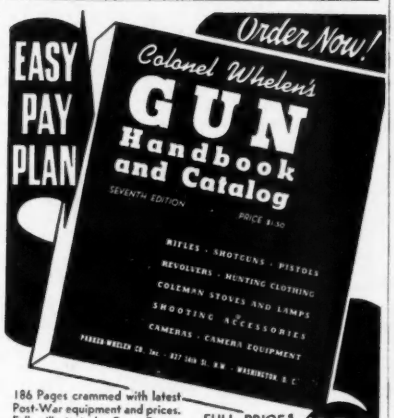

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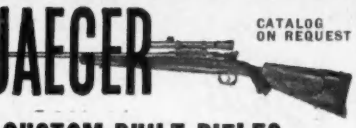

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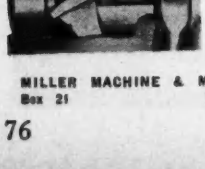

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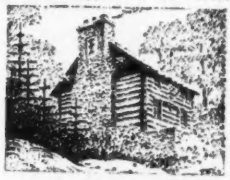

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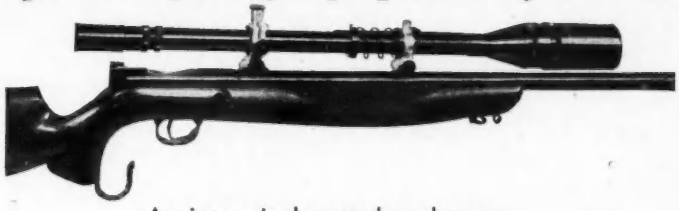

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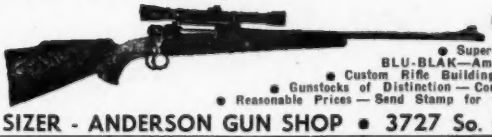

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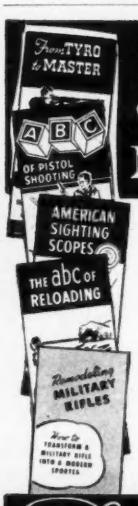

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